

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Barry Keating <Barry.P.Keating.1@nd.edu>  
Subject: [13535] \*\*\* Monday FOX (local date) \*\*\*  
Message-ID: <v03007803af402181cec5@[129.74.251.163]>

As scheduled, I will be on the air tonight (the local date will be Monday -- March 3, 1997).

Monday, March 3rd (local date)  
6:00 - 8:00 pm local (New York) time  
2300 - 0100 UTC  
frequency; "near" 7.122  
QTH is South Bend, Indiana  
QRP-L# 642

It's getting late in the hunt and many of you have already worked an N/T FOX -- come on out anyway and let me publish a good list of contacts on Tuesday!

Barry Keating  
WD4MSM

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Monte Stark <ku7y@sage.dri.edu>  
Subject: [13516] \*\*\*\*\*FOX ALERT\*\*\*\*\*  
Message-ID: <Pine.SUN.3.90.970302201219.14682B-1000000@vortex.sage.dri.edu>

Hi All,

In plenty of time to adjust your schedules...

I will be the FOX from Nevada on 12 March 97, local date. That's Wed evening.

Using UTC or GMT or ZULU time, it will be 13 March 97, 0200z to 0400z.

I have a bad noise from 7030 to 7040. Look for me at 7043 + or - qrm.  
(If that frequency is a problem, let me know asap, but I think this will work out OK)

My goal is to break 100 QSOs so please help me out!

I will post other reminders..... :-)

cu all there....

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Monte Stark <ku7y@sage.dri.edu>  
Subject: [13532] \*\*\*\*\*FOX ALERT red face correction!\*\*\*\*\*  
Message-ID: <Pine.SUN.3.90.970302231303.15101A-100000@vortex.sage.dri.edu>

Hi All,

Floyd pointed out to me that I had started off on the wrong foot!

The real night to look for me is like the sked by Chuck said:  
12 March, Wed, UTC/GMT/ZULU!!! 0200-0400z

So that will be Tuesday night local time!!!

That's Tuesday, 11 March local date.

But I got the frequency right! 7043 + or - qrm.

cu then....

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Brad Mugleston <bmug@gwl.com>  
Subject: [13548] 38 Special and O-scope  
Message-ID: <01BC27AB.0F8CAE20@pps-pc10.gwl.com>

I'm back, I have my 38 Special built - no smoke test done yet I want to retrace every step first. I do have a question. I have an old (about 1946) Du Mont type 274 Oscilloscope - which many of you have helped me play

with and under stand some of how it works - Where on the 38S would I hook up the probes and what kinds of tests can I run? I picked up a probe with a X1 and X10 setting to use with it.

Thanks

Brad

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "Paul R. Valko" <prvalko@Oakland.edu>  
Subject: [13511] And now a Scout Question...  
Message-ID: <Pine.OSF.3.95.970302214100.433E-100000@vela.acs.oakland.edu>

I just acquired a used Scout.

There seems to be a HUGE amount of a carrier-type bleed through noise on the speaker... even with the audio completely turned down.

Is it possible that the CPU is getting in there, and has anyone else experienced this???

73 =paul= w8kc

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "Jeremy Cowgar" <jcowgar@villers.com>  
Subject: [13584] Antenna's, Antenna's, Antenna's. How to decide?  
Message-ID: <B00000004305@mail.villers.com>

I do not have the tower, rotor, or money for a yagi on 40m and 80m where I hang out. I do not have the space for a 80 dipole, and I can only place an antenna up about 30', maybe 35' if I get lucky. Right now I have a 40m dipole up about 25' fed with 50ohm coax right into an antenna tuner, MFJ 941. It is very hard to tune for other bands, especially 80m.

I have looked at many of the Antenna books and most of them will make an antenna genius out of you. They go deep into the subjects of everything. I just want to put up an effective wire antenna but cannot even figure out what's what when looking at these books. It seems like all the construction articles say they are the best. However they also say that it has to be a

1/4 wave length up which I cannot achieve on 80m. I was hoping that you guys could take a look at my limitations and give me some suggestions.

I have four tree's marked with an \* and a number. I also have two chimneys maked [] but these are on a ranch style home that are probly only 15' up.

```

                * 2
* 1                * 3
+-----+-----+
[]|      HOUSE      | |[] <-SHACK
+-----+-----+
                * 4
```

Between tree 1 and 3 is 60', 3 and 4 is 75', tree 2 is not in the middle, and about 10' off the line of 1 and 3.

I know this question is probly out of the ordinary but I was hoping that you guys/gals could help me out on this one. If nothing else than tell me to toss up a dipole again, but before I do that I wanted to get a few opinions on wire antennas before putting one up a that has plans of staying for a while.

Thanks for any information,

KB8LFA  
Jeremy Cowgar  
jcowgar@villers.com

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Mike Duke <gmduke@oscar.teclink.net>  
Subject: [13506] ARGO 509 MODS?  
Message-ID: <Pine.GS0.3.95.970302193429.25448J-100000@oscar.teclink.net>

I amn about to acquire this long sought-after radio. While I don't believe in modifications without good reason, I would like to know of any which are truly beneficial to someone who plans to keep the rig for a long time. Are they collected in one publication, web, etc?

72/73, de K5XU

Mike Duke,  
Jackson, MS

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: k4wz@juno.com (RON L TODD)  
Subject: [13575] ARRL DX CONTEST  
Message-ID: <19970304.141217.2471.2.k4wz@juno.com>

Just got back from PINE MT. GA. working the contest with 3 othe hams

Had a great time.

450 Qs 198 countries and abt 200,000 points

Also worked few QRP contacts from my truck using a Outbacker ant.

Had 303 E-Mail waiting for me....

RON TODD K4WZ@JUNO.COM OR K4WZ@WORLDNET.ATT.NET  
FISTS #2109, ARCI # 9273, QRP-L # 924

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: dwink@juno.com (Daniel C Winkler)  
Subject: [13520] ARRL Handbook  
Message-ID: <19970302.210829.17271.3.DWink@juno.com>

Hi Gang,

I would like to make a general plea. Buy the Handbook and use it.  
Many of the questions I have seen in the past month have answers in the handbook.

AL value of 7-mix torroids - page 24.5  
Cable attenuation per hundred ft. - page 19.5  
Additional loss in db caused by standing waves - page 19.6  
ARRL-recommended 12v power connector - page 22.6  
Drill sizes - page 25.5  
Homemade dummy load - page 26.21  
Radials for vertical antennas - page 20.20  
Half turns in torroids - page 25.24 OOPS, IT IS WRONG !! (Guess we need to educate 'em)(I'm looking at a 1995 Handbook)(Zack or Ed-please change it!!)

There's a lot of QRP stuff in there, too:

Test/construction gear:

Audio oscillator 8 Hz to 150 KHz - page 26.20  
QRP Directional Wattmeter - page 22.23 (like the OHR WM-II)  
Soldering iron temperature control - page 25.7  
HF Adapter for Narrow-Bandwidth Oscilloscopes - page 26.28

Rigs:

The R2: An Image-Rejecting D-C Receiver - page 17.72  
Single Band Transceiver for 80 thru 20 (NN1G design) - page 17.79

Antennas:

Ladder-line center insulator/ stress reducer - page 20.8  
Trap Dipole for 40, 80, and 160 - page 20.13  
Resonant Feedline Dipole - page 20.17  
Antenna patterns from longwire antennas - page 20.19

I buy a new handbook every few years. No, I haven't read all of it. But I am always amazed by how much is in there, and how good the information is, in general. The sections on basic electronics seem to get better and better.

Please, before you post a question to the list, go read the appropriate section of the Handbook first. If the Handbook doesn't cover it, then at least you'll be able to answer a better question, and maybe we can make some suggestions for improving the next edition.

OK, off the soapbox.

73, ; D DWink@Juno.com Dan Winkler N7IVR Seattle, WA

-----whom the gods would destroy, they first make proud -----

From: Floyd Smithberg <floydnq7x@worldnet.att.net>  
Subject: [13523] ARRL SSB DX Contest  
Message-ID: <19970303052419.AAA10704@LOCALNAME>

Worked the contest in between a ScQRPion meeting, grocery shopping, a few honey do's and 2 full night's sleep. Propagation, unfortunately, was poor compared to the CW contest weekend. Nothing from EU, AF...heard two Asiatic Russians but couldn't work them...heard one DU and couldn't get him either. Mostly SA, Pacific, lots of Js and a few ZLs including ZL7, Chatham Is. and KH7, Kure Is. for two new ones. Need four more for worked QRP DXCC but will probably never get all the cards for it.

| FYI:      | Valid QSOs      | Countries/band    |
|-----------|-----------------|-------------------|
| 40 Meters | 16              | 13                |
| 20        | 48              | 22                |
| 15        | 37              | 17                |
| 10        | 4               | 3                 |
|           | ----            | ----              |
|           | 105 x 3 = 315 x | 55 = Score 17,325 |

Equipment: TS850, 33'vertical on 40M, 3 Element Triband at 45'

Hours operated.....~17

Power output..... 5W pep

LUs worked..... 15

JAs worked..... 20

Twenty meters, as usual, produced the most Qs but it was tough competing with the east coast for South and Central American contacts. Fifteen was somewhat easier on the ears, as the dx signals were louder than US and I wasn't bombarded with QRO sigs trying to hold a frequency. BTW, heard lots of splatter (bum sigs) and I'm sure they weren't QRP. Forty was all split operation and worked out quite well using just the vertical. Ten wasn't really open well and didn't spend much time there. Used a logging program and still managed to have 7 dupes...guess I'll have to read the docs someday. My score won't win any awards but in a small way it shows what can be done with QRP even on a poor weekend. Hope you all had fun too.

Floyd NQ7X Phoenix ScQRPion dm33uq

ARCI G-QRP NORCAL ARRL

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: nfn04028@naples.net

Subject: [13585] AT-11 Ribbon cable connections?

Message-ID: <199703032000.PAA29975@gator.naples.net>

I could guess, but I'd rather be right.

Could someone tell me which LED's do the the "Red 1" and "Red 2" ribbon cable conductors go to?

The 2 red LED's on the panel illustration are labelled 3 and 4, ( " >3 " and "Tuning", respectively).

Thanks, de Marty K1FHR

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Steve Bornstein <saborns@freenet.columbus.oh.us>  
Subject: [13558] Att: Brent KG0WE (ND Sked)  
Message-ID: <Pine.3.07.9703031231.A7806-81000000@login>

G'day Brent,

You name the time and freq. and I'll be there.

73 DE K8IDN STEVE  
QRP-L 331, ARCI 9059, NORCAL 1717, MIQRP, FISTS 2441, GQRP 8332, CQRP 1

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: W Marty Ray <WMRAY@mail.delcoelect.com>  
Subject: [13599] Backpacking rig  
Message-ID: <0525644F.007667E9.00@kode1n12.delcoelect.com>

We are planning a canoe trip to the boundary waters in northern Minnesota in July and I'm looking for the best rig to take along. Here are my criteria:

- Light weight
- Small
- 40 or 20 meters (?)
- SSB



I would like to have a sideband rig so that it can be used by other members of my group in the event of an emergency. Also, I'm not sure what band to choose. 40 meter phone can get kind of rough at night. : )

If anybody has any suggestions, I would like to hear them.

Thanks!

Marty Ray  
NN9H

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "Allan G. Taylor" <ataylor@midas.llnl.gov>  
Subject: [13573] Bad signal quality  
Message-ID: <199703031902.LAA06764@midas.llnl.gov>

In a few random QSOs over the weekend, I talked to two QRP hams (among many others)  
and gave the following reports: 579K 568ck .

The first was a straightforward minor click, altho I have never heard such on commercial rigs. An Oak Hills rig of some sort was being used (QSB took out the details).

The second was a minimum parts TUBE rig , single tube xtal osc, tp tube coil form, hand-ground xtal... you get the picture. Anyway, except for the chirp being not too wide ranging, his sig could have passed for a Cuban.

Over the years, the most likely QRP rig foible I have noticed is key clicks. Seldom chirp, occasionally a distorted keying waveform.

To be fair, the commercial 'QRO' rigs often have signal stability problems. Yes, even the PLL rigs. I have often noticed a 'slo-mo chirp' that I cal a sag. I have heard it most often on Icoms, even an IC765 which has an internal PS. I suspect that most of those problems are caused by cheating on PS and not having enough gaff for the job.

My survey is most definitely NOT thorough, but it IS the case that there are SOME sigs that are less than state-of-the-art from QRP rigs. The fraction is low, but they

are there.

Have a GT day

Grant K7GT

e-mail: k7gt@qsl.net

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Bob Tellefsen-CNSE97 <Bob\_Tellefsen-CNSE97@email.mot.com>  
Subject: [13581] BULLETIN: Golden Fox Alert  
Message-ID: <M1315919.008.hfr08.1.970303193529Z.CC-MAIL\*/OU=LMPCC10/OU=ILBE/  
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Here's a rare one, gang.

The latest Golden Fox prediction is for Tuesday evening, March 4 (March 5 0400-0600 UTC). The widely sought Golden Fox will be on the air from his present hunting grounds, Newark, CA, on San Francisco Bay. His song is expected to be CQ CQ FOX de N6WG, according to authorities. He should be found between Hills 7035 and 7040 during the above times.

Don't let this one get away.

Watch this space for late breaking bulletins.

72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Doug Hendricks <ki6ds@dpol.k12.ca.us>  
Subject: [13578] California Fox Team Signs Free Agent  
Message-ID: <1.5.4.16.19970303121419.09073b08@telis.org>

The California Fox Team pulled off a coup yesterday as they announced the signing to a long term contract of highly sought after free agent fox hunter Bob White, W03B. White, who is world renowned for his skills as both a fox and fox hunter had let it be known that he was available to the highest bidder. Three teams, The California Fox Hunters, The Arizona ScQRPions, and the Texas Team were all bidding for White's services.

White said that he would not reveal the terms of the contract other than it was substantial, and include provisions for several option years. He was flown to California for a tryout last week and performed flawlessly as he

demonstrated that it was possible to work the Texas Fox with an indoor loop antenna. White's qso points helped the California team chalk up another victory in their quest for supremacy in the Fox World Series.

Three teams were bidding for White, with the California and Arizona bids very close according to sources who wish to remain anonymous. The Texas bid was not even close, but those same sources also said that the Texas Team was hampered by the overexpenditure of resources sending K5F0 on scouting trips to California. K5F0 has been sighted many times in the Golden State, but so far nothing has come of his trips, as the alarm has always been sounded by the border guards at the airports.

White will remain in California for about 4 or 5 more days, then will return to Maryland where he and his wife will prepare for the permanent move in April. Congratulations to the White family and welcome to the California Fox Team. Texas, the ball is in your court, and you might finish third next year as those guys from Arizona are catching us fast. 72, KI6DS

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>  
Subject: [13565] CQ Montgomery, Alabama!  
Message-ID: <Pine.3.89.9703031210.B10409-01000000@w3eax.umd.edu>

I will be in Montgomery for ONE night ONLY! Monday, 10 March, 1997.

Anyone for dinner?

\* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 \*  
\*\*\* 6m 75 grids worked on 8 watts \*\*\* HF 138 cfmd \* QRP-L #147 \*\*\*  
\*\* QRP ARCI #9054 \*\* DXCC/WAS/WAC \*\*\* 100% dipole powered HF/6m \*\*  
\* 301-549-1022 h / 301-982-1015 w \*\*\* 145.490- 147.225+ PL 156.7 \*

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
Subject: [13568] Debugger #2: day 3  
Message-ID: <199703031827.MAA12179@multi13.netcomi.com>

Got to get caught up here...

Began to finish the job of final assembly that Larry began. There are ten connectors/controls/other components which are mounted on the chassis and handwired to the circuit board (my least favorite part of kit-building).

I am using the teflon wire I got from Jim Skalski, so that helps. (If Jim has any more of that wire, get some. It's the best stuff I've seen! Solders well, strips easily, doesn't melt, thin, flexible.)

Final wiring takes a bit of patience. The places on the board where wires go are not marked, and some wiring (like the power regulator) is point-to-point on the panel.

Before you send congratulatory flowers, there is lots of work left to do before the fat radio sings.

Mike K1MG

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
Subject: [13571] Debugger #2: day 4  
Message-ID: <199703031841.MAA12904@multi13.netcomi.com>

Day 4!

Not much progress to report. Spent most of the day getting advice and sharing experiences at the NorCal meeting. Spent the rest of the day playing with my daughter and recovering with my wife from our first round of new car shopping. Our youngest car is older than our daughter who has already won a prize in a QRP building contest.

There is quite a list of stuff still to test and debug:

- RIT not tested
- VFO stability and range, after assembly into box
- keying characteristics
- audio filter not tested
- should probably change the circuit to limit the range of the TX offset
- check stability under loads other than 50 ohms
- check harmonic output
- fix AGC oscillation after assembly into box
- final adjustment and tuning

What have I left off?

Mike K1MG

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: N9DD@aol.com  
Subject: [13564] FOX: Thursday Night Indiana Fox 0200-0400  
Message-ID: <970303125501\_-904002628@emout12.mail.aol.com>

Hello fellow QRPers

I get my second try at being the Fox this coming Thursday night - March 6 USA time. PLEASE NOTE THE SCHEDULE CHANGE. I will be on from 0200 - 0400 instead of the originally planned 0100-0300 (you are welcome, West coasters).

The time works out to 9-11 pm EST, 8-10 pm CST, 7-9 pm MST, and 6-8 pm PST.

I'll try to start around 7.037 MHz. but will move as high as 7.045 if I can't find a clear frequency there. I'll avoid 7.040.

My first try at fox netted me 40 QSOs. Propagation that night was good but there was a line of thunderstorms in Illinois that really made it rough. I'm hoping for much better conditions this time and think it would be possible to double my previous score with any help at all from the propagation gods. I recently picked up a Radio Shack DSP filter (for \$22 !) and think that it will help alot if the band is crowded. What the heck, I'll try to break 101 QSOs. (Just kidding, Ron) :-)

There aren't many Fox nights left. You don't want to miss this one! Remember - the time is 0200-0400 UTC - Thursday night in the USA. See you all on the air!

73,

Tom N9DD  
South Bend, Indiana

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: N4JS <n4js@amsat.org>  
Subject: [13529] Fox?  
Message-ID: <v03020901af4029097ab0@[206.106.174.44]>

Is there a fox tonight? (Monday) If so, what times? Hoping for an early hunt as I have to leave for work at 0300z.

- - - - - John L. Sielke n4js@amsat.org n4js@pobox.com

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| \_ | \ \_ | | \_ | \ \_ \_ / | \_ \_ /

n4js@n4js.ampr.org NJ Grid:FM29LN  
http://www.pobox.com/~n4js NJ-QRP #57  
QRP-L #884 QRP-ARCI #9328 NE-QRP #507  
G-QRP #9544 Norcal #???? QCWA Life

Member

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Guy Dragoo <gdrag@proedge.com>  
Subject: [13577] FS 36 V DC QRP to QRO power supplies  
Message-ID: <01BC27D5.8BB762E0@gdrag.proedge.com>

I have a few 36v 4.5 amp power supplies that may solve your higher =  
voltage needs. They measure 10.25L x 4.5W x 3.0H in a ventilated back =  
plastic enclosure and are used and rated at output of 189 watts.=20  
These units have a generic AC plug input (AKA computer junk will try to =  
include as long as I can scrape up a few) and a wide modular plug output =  
(never seen one like this but will also try to include these as stated =  
above). They have a 115/230 selection for input voltage. They appear =  
to be pretty stout and shielded with screen, full length heat sinks, and =  
aluminum sheet.

\$20ea which includes shipping. If you aren't happy when you get the =  
unit you can pay me what you think it is worth (be advised if it's less =  
then shipping I may not be a happy camper :- ) or you can send it back =  
and I'll refund your money.

I'll keep one as a freebie to be awarded for the best neato mod =  
(variable voltage or other?) utilizing this feller.

73

Guy AC5HL

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: timcook@erinet.com  
Subject: [13607] FS: Yaesu FT-7/FL-110  
Message-ID: <331B5FE1.6E4F@erinet.com>

For sale: FT-7 80-40-20-15-10 20 watt ssb/cw mobile radio. Nice  
condition, with mic and copy of manual. Also have the matching FL-110  
160-10 amplifier for those who want a little more power at times.  
110watts ouput with 15-20 watts in. In good condition with manual.

package deal \$350, will split if necessary. would take older Ten Tec in  
trade (544/omni-a/b/c, etc )

please email direct for more info.

Tim

NZ8J

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: torell@sicom.com (Kent Torell)

Subject: [13554] future sunspots

Message-ID: <v02130502af40a5985e6f@[192.91.202.41]>

Here is the latest prediction of sunspot numbers from the SEC (Space Environment Center, not the stock market folks :-). Looks like things will be heating up pretty fast come Christmas...we need to get our 15/10 meter qrp designs on-line this summer/fall, in time for winter building. The Sierra is the benchmark :-)

|      | JAN          | FEB          | MAR          | APR          | MAY          | JUN          | JUL          | AUG          | SEP          | OCT          | NOV          | DEC          |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1997 | 14<br>( 4)   | 16<br>( 4)   | 17<br>( 4)   | 19<br>( 4)   | 21<br>( 5)   | 24<br>( 5)   | 26<br>( 5)   | 30<br>( 6)   | 34<br>( 6)   | 38<br>( 7)   | 43<br>( 8)   | 48<br>( 10)  |
| 1998 | 54<br>( 11)  | 59<br>( 12)  | 64<br>( 13)  | 71<br>( 15)  | 78<br>( 17)  | 86<br>( 18)  | 93<br>( 19)  | 99<br>( 20)  | 104<br>( 22) | 110<br>( 23) | 114<br>( 23) | 117<br>( 22) |
| 1999 | 122<br>( 23) | 126<br>( 23) | 131<br>( 23) | 135<br>( 23) | 139<br>( 22) | 141<br>( 22) | 144<br>( 23) | 148<br>( 24) | 150<br>( 23) | 151<br>( 23) | 151<br>( 24) | 154<br>( 24) |
| 2000 | 154<br>( 24) | 153<br>( 25) | 152<br>( 25) | 151<br>( 25) | 150<br>( 26) | 150<br>( 25) | 149<br>( 23) | 147<br>( 21) | 145<br>( 20) | 145<br>( 20) | 146<br>( 20) | 145<br>( 20) |
| 2001 | 144<br>( 20) | 144<br>( 19) | 144<br>( 19) | 143<br>( 19) | 142<br>( 18) | 141<br>( 18) | 139<br>( 17) | 137<br>( 16) | 136<br>( 15) | 134<br>( 14) | 132<br>( 13) | 128<br>( 12) |
| 2002 | 125<br>( 12) | 122<br>( 12) | 118<br>( 11) | 116<br>( 11) | 112<br>( 11) | 76<br>( 12)  | 74<br>( 13)  | 71<br>( 13)  | 69<br>( 12)  | 67<br>( 11)  | 64<br>( 9)   | 62<br>( 9)   |
| 2003 | 81<br>( 9)   | 77<br>( 9)   | 74<br>( 9)   | 72<br>( 9)   | 70<br>( 8)   | 67<br>( 7)   | 64<br>( 7)   | 61<br>( 7)   | 61<br>( 9)   | 60<br>( 10)  | 60<br>( 11)  | 59<br>( 11)  |
| 2004 | 58<br>( 11)  | 56<br>( 11)  | 53<br>( 10)  | 50<br>( 10)  | 46<br>( 9)   | 44<br>( 9)   | 43<br>( 9)   | 42<br>( 8)   | 39<br>( 7)   | 36<br>( 6)   | 33<br>( 6)   | 31<br>( 6)   |
| 2005 | 29<br>( 6)   | 28<br>( 6)   | 27<br>( 6)   | 26<br>( 6)   | 25<br>( 6)   | 24<br>( 6)   | 23<br>( 6)   | 22<br>( 6)   | 24<br>( 5)   | 24<br>( 6)   | 24<br>( 7)   | 23<br>( 7)   |

Top line is predicted value, second line (in parenthesis) is confidence limit.

Kent Torell    torell@sicom.com    602-483-2867 x230  
SICOM    7585 E. Redfield, #202    Scottsdale, AZ    85260  
AB70A    qrp-1 57    ARCI 9075    DM33xn    33.55 N 111.078 W

From owner-qrp-1@Lehigh.EDU    Mon Mar    3 18:04:28 1997  
From: PDouglas12@aol.com  
Subject: [13538] Fwd: 4 Days In May  
Message-ID: <970303081119\_1612630804@emout06.mail.aol.com>

Gang,

I thought this nice note deserved posting. So say hi at the Hi Res booth in Dayton, if you get a chance, to this nice fella' who takes the time/money to advertise in our QQ.

In a message dated 97-03-02 10:41:56 EST, hires@rust.net (Floyd Soo, W8RO) writes:

<<

Preston,

Thanks for the return mssg. Unfortunately, I work full time at Dayton. My company has a had a booth in Hara for at least 5 years now and will have one there again. I have been at booth #472 for pretty much all that time and will be there again this year.

I am also on the Board of Directors of the Collins Collectors Assn. We have our meetings and hospitality suites on Thursday and Saturday evenings after Hara closes. Please let the rest of the gang know that I am trapped at the HI-RES booth during the day. I havn't had a chance to go through the flea market for 2 years now!

--

Tnx and 72,  
Floyd Soo, W8RO  
President, HI-RES Communications, Inc.  
Net Manager and Board Member, Collins Collectors Association  
QRP-L #392  
hires@rust.net  
<http://www.rust.net/~hires>

>>



-----  
Forwarded message:

From: hires@rust.net (Floyd Soo, W8R0)  
Reply-to: hires@rust.net  
To: PDouglas12@aol.com  
From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: wa5whn@juno.com (Jay D Miller)  
Subject: [13509] FYBO '97 photos & QRPTTF '97 site photos (W5BI & WA5WHN)  
Message-ID: <19970302.193535.4551.0.wa5whn@juno.com>

QRP-Lers,

FYBO '97 photos (W5BI/WA5WHN) are available for Your' amusement (humor is encouraged), plus our QRPTTF '97 site photos.

<http://www.flash.net/~w5bi/>

72...Jay, WA5WHN

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Paul Cereste <cereste@myapc.com>  
Subject: [13569] G3YCC URL?  
Message-ID: <s31ad2e4.022@myapc.com>

I was interested in the 160 m antenna that was on Frank, G3YCC's web site, but he has apparently changed his URL since I bookmarked it a few months ago. Would someone on the list send me the G3YCC URL.

TU in advance,

Paul K1CGZ, e-mail cereste@myapc.com

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
Subject: [13542] HAARP Test Info  
Message-ID: <199703031441.0AA11704@chuck.dallas.sgi.com>

Gang,

I got this from Charles Cashion, W5ISZ, local dude with NORTEX, and thought this would be of interest to the group or subset that can stay up late Friday night. The times are UTC for Saturday, but I calculate Friday night USofA time.

OK, 2 Billion Watts for 10 minutes continuous on 6.99MHz is 4,000,000,000 minutes at 5W. For 4,000 QRPers, that means 1,000,000 minutes of air time which is a lot of QSOs. Just putting this thing in prespective. :-) ;:-)

For those of you close in, you might wanna disconnect the antenna to try this experiment. Heck, may have to make a trip to the dentist and have the fillings removed for a few hours. :-)

I'll be there. In fact, I'll be on 30M checking to see if the test influences propagation in the direction of KL7. If any KL7 is interested in trying this out, let me and the group know. I know that I am not the only one needing KL7. I know that they are only going to beam the signal 10 degrees from the vertical, but hey, it could work.

Under no circumstances is anyone that copies the message to retransmit it to this group. Please. We want you to post signal reports, times, etc. but don't skew the test, please. If you tell us you got the message, then you got the message. You don't have to prove it. Send it in for the QSL.

FYI de QRP-L #1

#### Announcement

#### HAARP Listening Test

-----  
During the last year, the HAARP program has received numerous requests from amateur radio operators and shortwave listeners (SWLs) for information about where and when they might be able to tune their receivers in order to hear HAARP while it is on the air. To meet this need and to provide input to the HAARP program concerning its electromagnetic compatibility efforts, we are planning to conduct a HAARP listening test on March 8, 1997.

During this test, the HAARP facility will transmit on or near the frequencies 3.3 Mhz and 6.99 MHz to allow listeners the opportunity to listen for the HAARP signal, send in a report of logged signal strength, and claim a QSL card. The test will be conducted beginning at 0430 UTC on

March 8 (2330 Eastern Time on March 7). Please note that the lower frequency has been changed to 3.3 MHz from the originally announced frequency of 3.4 MHz. The transmission will be conducted according to the following schedule:

---

TRANSMISSION SCHEDULE

| TIME<br>(UTC) | Frequency<br>(Mhz) | Signal       | Antenna Pattern<br>Azimuth | Elevation |
|---------------|--------------------|--------------|----------------------------|-----------|
| 0430          | 6.99               | Carrier Only | -                          | 90        |
| 0435          | 6.99               | CW Message   | -                          | 90        |
| 0440          | 6.99               | Carrier Only | 103                        | 80        |
| 0445          | 6.99               | CW Message   | 103                        | 80        |
| 0450          | 3.3                | Carrier Only | -                          | 90        |
| 0455          | 3.3                | CW Message   | -                          | 90        |

---

Since HAARP cannot transmit above 10 Mhz, we have scheduled this listening test after sunset in Alaska so that propagation conditions are best for listeners in the "lower 48." The transmission beginning at 0450 is primarily devoted to Alaskan hams (and any others who want to try to copy it), since the current low level of solar conditions will probably not support propagation of 40 meter signals within Alaska after sunset. The CW (Morse code) message will be sent at 10 wpm.

We will attempt to choose a frequency near those stated in the above table. However, the exact frequency used will be determined at the time of the test to avoid interfering with other users of this spectrum space. Prior to the test, we will send a short "call-up" consisting of " V V V V de HAARP" sent as Morse code and repeated several times.

Reception Reports should include your copy of the CW text transmission along with signal strength observed during the constant carrier periods. A description of the antenna and receiver used would be useful but is not required. Please send reception reports to the following address:

High Frequency Active Auroral Research Facility  
P.O. Box 271  
Gakona, Alaska 99573

If you are interested in commenting on the proposed test, please use the text box below. You can also write to the HAARP e-mail address at the bottom of the page. You do not have to contact us in order to participate in this test (but you do need to send in your report to claim a HAARP QSL card.)

73 from the hams at HAARP

-----  
Questions of a technical nature can be sent to

askhaarp@itd.nrl.navy.mil

HAARP Home Page-> <http://server5550.itd.nrl.navy.mil/haarp.html>

-----  
Chuck Adams K5FO            adams@sgi.com DXCC=11  
[http://reality.sgi.com/employees/adams\\_dallas/](http://reality.sgi.com/employees/adams_dallas/)

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: WA8GHZ /5 Jack Dougherty <jdougher@wt.net>  
Subject: [13517] HB: BOXES, DSPs, 38s, MOBILE MOUNTS  
Message-ID: <331AAC6A.C2F@wt.net>

Had a great Sunday whilst burning solder and wish to pass on some  
'finds'.....

1. Check your Radio Shack "outlet" stores - I bagged 3 of their nice clamshell project boxes for \$6.each as a discontinued item (complete with nice rubber feet and vent slots. Part No. 270-253A. These are the boxes that fit the Emtech NW80xx series so well, and are a little large for the 38spl, but can't beat the closeout price.

2. I did NOT bag another RS DSP Saturday as planned. After calling around, and although computer inventory directed me to one of our outlets near I-10 here in Houston, one of 'vous chez Lousiana' beat me to the 4 listed in stock and had them shipped out...rats, if only a day earlier.....enjoy in La. I gotta open up one of these DSP boxes to see if they are HB-able....anyone know??

3. Finally, and after a few weeks of having a 38spl laying on my desk with its guts exposed, I put in in a case (see 1 above) and used some black tie-wraps to strap on on of my 'backup' RS-DSP's to the rig's box, backpack style. The DSP starp-on makes a nice audio amp, and compensates for the weak audio of my 38; that plus the signal filtering seems to help. This particular DSP strapped on the to 38 was had at \$21 'closeout'. Sure wish I could get more.

4. For mobile mounting: I like to use a set of straps made with black tie-wraps (the long 12" jobs). I make a 'hoop' out of two of them, run the hoop through vent holes, etc. on the rig as attachment points, and hang the 'hoop' from a pulled out ash-tray. Seems to hold QRP rigs in my car FB, plus I don't have to drill holes in my 5,000 pound counterpoise built in 1979 by The Cadillac Motor Company. Black

tie-wraps look nice, are a good alternate to drilling your car, and are semi-adjustable in 1 direction (smaller).....

And now, finally, for some 30Meter QRP Mobile action tomorrow during the commute, hope to see ya.....

--

WA8GHZ        /5                /    === === o ===        o === o        o === === o  
Jack        /Houston    /    "I know the guy who built my radio....."

From owner-qrp-1@Lehigh.EDU   Mon Mar   3 18:04:28 1997  
From: PDouglas12@aol.com  
Subject: [13589] HB: Scope Mixer Part II  
Message-ID: <970303145348\_1582858515@emout07.mail.aol.com>

The SWR/Range unit is in a second small aluminum box. The RF is piped from one box to the other via a pair or right angle BNCs and a female/female straight adapter. There is a good picture of this same set-up in the article if you look closely. If you want to see my setup, I can email you a picture.

You want to know if it works?

In a word...yes. I can see those transmitted sine waves as clear as day. I can see distortion, and I can see when the little 38S trimmer is set to give me a clean signal. It works. And, once that bridge is properly balanced, I expect I will be able to use the scope to tune my antenna tuner without putting a signal out on the air--that is possible with this unit, as it can use the bridge without putting a signal on the antenna--it goes into the dummy load.

If one were so inclined, the system could be used to trace signals--though that would be somewhat more clumsy than with a modern full-bandwidth scope. (And you would need another signal generator.) But as a dedicated station monitor to see things like keyed waveforms, output signals, and even voice envelopes, it works adequately. Since I recently bought myself a 100mHz scope, I won't use the adapter system for troubleshooting. I have left it permanantly in line as a station monitor--it fits nicely on one of my operating desks without displacing too many other things. My Navy OS-8 oscilloscope is quite small in comparison to most scopes of its era--actaully it is much smaller than my TEK 565! Note, this system would not be useful for rigorous testing requiring a calibrated scope. For that, you do have to spend the hundreds.

So, if you have a beat up old working scope, you CAN see signals in the HF spectrum with it by building yourself an adapter like the one in 73. And if

you have a signal generator, you can do the whole thing for very little investment. Even if you buy everything at RS and have to pick up an MFJ 207 used, you can do it for less than 50-60 dollars. That certainly beats spending hundreds for a scope if you only need it once in a great while for non-critical signal scoping. Incidentally, the adapter in all recent handbooks is similar, except you would have to apply a variable signal (L0) to the mixer input at the cap where a fixed xtal controlled oscillator is applied in the handbook version. In fact, the mixer in the handbook is a much better device, so that system may even work better.

In all, this was a very worthwhile project, and I plan to leave it up and running in the shack. It will handle my Yaesu at 100 watts (I do run that much power when I am trying to do SSTV) and it doesn't seem to be stealing any significant signal into or out of the station.

72,

Preston WJ2V

Meantime, the Steve Weber Spectrum Analyzer Adapter is 3/4 finished. Stay tuned for more scope stuff.

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: PDouglas12@aol.com  
Subject: [13587] HB: Scope/Mixer Review of sorts Part I  
Message-ID: <970303145346\_1349651602@emout05.mail.aol.com>

Gang,

I have gotten some inquiries asking for a "review" of the scope mixer described in the Jan 73 Magazine. Well, I am not sure one can review a homebrewed project which is built from a magazine description. But for what it's worth:

I built the Scope Mixer project from the Jan 1997 73 Magazine together with its separate SWR/Range unit over the past couple of weeks. Actually, it is in the shack for about a week. The system consists of four units: The Scope/mixer; the SWR/Range unit; a signal generator (MFJ 207) and an old WW2 vintage scope. First of all, for the less scope-sophisticated, note that the main purpose of this project is to be able to see the waveforms of HF signals that are normally far beyond the range of these ancient scopes. The highest frequency my old scope can see is about 1.6 MHz, which is below even the 160 amateur band. So, the idea is to mix my transmitter with another signal that is about 1 MHz distant from the transmitter output, resulting in a difference output from the mixer of 1MHz--which the scope can see. This is the idea behind the project. One box contains a mixer. It uses a cheap 2N222A and a

somewhat hard to find old fashioned ferrite loopstick. I had to buy one (7 bucks with shipping and handling!). The second unit uses a pair of transformers based on 100uH chokes from the corner Radio Shack. Both units were easily assembled "ugly" style by soldering the grounded parts to unetched circuit board and hanging the rest in mid-air. I used RS metal project boxes and everything connects up with BNC connectors.

You need to get a local oscillator signal for the mixer from somewhere. The article suggests laying your hands on an MFJ 207 or one of its cousins. The '207 sells for 80 bucks new, but the author suggests you can get one for under \$40. He is right. I paid \$35 at the last flea market without much effort. And the thing is obviously very useful for a million other things as well.

The SWR/Range unit is both an attenuator (must be used in conjunction with a dummy load--see below.) and a bridge for SWR readings.

In practice, I found that the bridge wasn't agreeing with my OHR or MFJ SWR meters. This led to my first discovery: The old Heath cantenna under the corner desk was shot. The oil had leaked out (non-PCB thank goodness) and was now working its way through my basement foundation. Not particularly good for the environment, but at least it was drug store mineral oil. This led, as usual with my projects, to the spending of more money. I bought the Ten-Tec 300 watt dummy load kit for 24 dollars (dry, no oil -- learned that lesson!) So, the bridge wasn't working because one of the branches had the wrong resistance!

Continued in part II

Preston WJ2V

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: Brian Cieslak <brianc@ams-i.com>

Subject: [13541] Heddy lamar

Message-ID: <c=US%a=\_%p=Adaptive\_Micro\_S%l=AMS-I\_SERVER\_1-970303142405Z-382@ams-i-server-1.ams-i.com>

the latest edition of Invention and technology has an article describing all of heddy lamar's accomplishments...If you are interested in the history of technology this is a fun rag to read...the last issue had a big article on the color television wars.

Brian AE9K

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Kd0su@kktv.com  
Subject: [13515] Help with QRP-L  
Message-ID: <199703030416.XAA151407@nss2.CC.Lehigh.EDU>

Sorry folks, I lost my help files for QRP-L. How do I get them again?

73, Rick  
KD0SU -- Colorado Springs  
CQC #100 - QRP-L #539 - MIQRP #1284 -- NORCAL  
ARRL - AMSAT - SMIRK

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: gsurrency@juno.com (Gary L Surrency)  
Subject: [13593] Inexpensive new scopes on the market.  
Message-ID: <19970303.141152.10414.1.gsurrency@juno.com>

A great big thank you to all who responded to my question for feedback on the new scopes from Fluke and Tek. Looks like these little guys are really starting to be a factor in choosing an affordable (ahem) o'scope.

I, for one, will be glad to see the eventual demise of the CRT and its high power (voltage) requirements and large size and weight. I'm looking forward to the day when we can hang our TV screen on the wall like a picture frame. Dittos for the PC monitors.

Seems like the Fluke handheld is a good choice for portable usage, and the Tek model gets the nod for a little more serious work. I remembered I had a Jenson Tools catalog, so I went and looked in it for more info. Good info in there, but the prices are usually higher than some other sources.

Thanks again,

72,

Gary Surrency AB7MY  
S&S TAC-1(40&80m) and ARK30, AT-11 (QRO and QRP)  
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH  
Az ScQRPions



From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Jerry Parker <jparker@fix.net>  
Subject: [13526] IRF-510'S  
Message-ID: <2.2.32.19970303064655.00c76ec4@fix.net>

Dan's Small Parts and Kits has IRF-510's 5 for only \$4.50

<http://www.fix.net/dans.html>

Enjoy,,,72,,,Jerry...WA6OWR...K

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: gsurrency@juno.com (Gary L Surrency)  
Subject: [13504] KC-2 & OHR100, CRs - PSE!  
Message-ID: <19970302.173725.10230.0.gsurrency@juno.com>

Hi everybody.

Has anyone ever cobbled together a KC-2 and an OHR100?  
I am contemplating doing this, and wondered if it has  
already been done before. I'm just kinda a digi-dweeb  
(digital display, NOT digital mode) and like to have an  
accurate readout of freq.

I thought the neat keyer, power meter, s meter, freq. readout  
would make a wonderful add-on, instead of just using the  
digital display option from OHR or S&S. The KC-2 looks  
so small, it should fit onto the OHR100's front panel OK. Might  
have to ditch the RIT switch, tho'. No biggy, just use a detented pot.

Next best option is the Sierra / KC-2 setup, but it is mucha dinero  
senior. Would have to budget a while for that, but it is a future  
possibility.

If anyone has done this combo, or has a Sierra / KC-2 duo, please  
let me know how you like it, and how it worked out for you.

Oh, yeah. One more thing.

Would it be too much to ask for some of you to PLEASE hit your carriage return (C/R, RETURN, or ENTER) key now and then? One big long paragraph does not impress me, and I usually just hit the Del key when I see that. You know who you are.

Like, I ain't got the time to format this stuff thru TROFF or NROFF. That's Unix stuff for you Windoze and Dos heads. Sheese!

Sure makes it a lot easier to read. We could all take lessons from Nils' posts. Even with paranoia, medication, printing ink poisoning, and badgers, he writes stuff that is easy to read. Even if you can't understand it sometimes. ;-) Je' ne ce pas! Oui?

TIA (thanks in advance)

a bunch of 72s,

Gary Surrency AB7MY  
S&S TAC-1(40&80m) and ARK30, AT-11 (QRO and QRP)  
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH  
Az ScQRPions

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Brad Mugleston <bmug@gwl.com>  
Subject: [13600] Kenwood Filters  
Message-ID: <01BC27DF.7DCB5880@pps-pc10.gwl.com>

Sorry for the band width but someone out there told me they had a Kenwood YK-88CN filter that they wanted to sell.

I lost your email address. Please reply.

thanks

Brad KB0ROL

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: EScott@gstworld.net (Erin Scott)  
Subject: [13603] KI6DS email address?  
Message-ID: <0001568D.3117@gstworld.net>

Will someone please give me Doug Hendricks's email address the one I have got bumped back. Thanks Erin

p.s. please respond directly to me as I get QRP-1 in digest

"Give me ambiguity or give me something else."

Erin KC7LEU  
KC7LEU@N7UVH.#NID.ID.USA.NOAM  
escott@gstworld.net

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: timcook@erinet.com  
Subject: [13508] LDG AT-11  
Message-ID: <331A318E.4B8E@erinet.com>

Anyone have one that didn't fit their needs and wants to sell it? I am interested in trying one. Please email if you have one for sale.

Tim  
NZ8J

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "Paul R. Valko" <prvalko@Oakland.edu>  
Subject: [13510] LDG Tuner Question...  
Message-ID: <Pine.OSF.3.95.970302213816.433D-100000@vela.acs.oakland.edu>

I almost have the tuner assembled and I'm at the point of installing the toroids.

If you've built one of these beasts please email me with how the toroids have oriented themselves to your PCB. Mine seem to all want to be on an angle and NOT inline with the silkscreening.

73 =paul= w8kc

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "David Kreinberg" <kreinbd@ccgate.dl.nec.com>  
Subject: [13546] MY N38S IS ALIVE-CREDIT WHERE DUE!  
Message-ID: <9702038574.AA857409567@smtpgw.ccgate.dl.nec.com>

Gang:

Well, I think I was one of the first of the 2nd batch of 38S kit builders to notice the tuning trouble and asking for help.

After getting the X1 crystal on Saturday, I now have a wonderful working rig! In my effort to fix the tuning problem, I had changed out some of the original parts, D3 is now a 1N4002, and L1 is a 6.8uH choke. As a result, my tuning goes from about 10.101 to 10.114. I'll work on getting the coverage a bit better, but I'm sure a happy camper.

Again, many thanks to the NorCal crew for an outstanding project.

p.s. Almost worked a W9 in Indiana yesterday on 250mW, but he lost me. I know my RF is gettin' out!

73 de Dave NR3E  
nr Dallas, TX  
qrp-1 #25, ARRL

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: ac4gt@juno.com (Nathan C Tart)  
Subject: [13555] N2vot@aol.com: Re: EMail list for MARS  
Message-ID: <19970303.120438.4759.1.ac4gt@juno.com>

This address workd... I know because it just now worked  
for me.....Nate AC4GT

----- Begin forwarded message -----

From: N2vot@aol.com  
Subject: Re: EMail list for MARS  
From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Brent Alexenko <alexenko@prairie.nodak.edu>  
Subject: [13562] ND QRP  
Message-ID: <Pine.OSF.3.91.970303114156.25315C-1000000@prairie.nodak.edu>

Hi all!

Well, I'm going to be goofing around on 40m at or near 7.115 (it seems pretty quiet there) around 10 pm CDT tonight (Monday). I'll try and work you if I hear you, but again, the code is pretty rusty :)

Looking forward to it!!

Brent  
KG0WE

West Fargo, ND

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Elmar Vaheer <ekv@intercall.com>  
Subject: [13545] Need copy of oner.html or a quick CW transmitter  
Message-ID: <331B21CC.3B67@intercall.com>

Greetings,  
Searching for the file on the internet yeilded Franks G3YCC homepage which doesnt work. Looking for the layout of this transmitter. Its a quick 5 minute transmitter for 40M. A bozo at my last radio club meeting said you can't built a cw transmitter in less than 15 minutes. I would like to proove him wrong at the next meeting.  
thanks for your help es 72/73  
de Elmar KB2VTN

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "Phil Sikes" <psikes@whidbey.net>  
Subject: [13527] New antenna  
Message-ID: <199703030712.XAA08522@islander.whidbey.net>

Hello to the group. I just got my 30 meter loop up and working with the help of my visiting brother Clif (AB5UA). What a great antenna!! It is up at about 60 feet or so and running in a north-south direction. There is a 4:1 balun at the feed point so I could feed it with coax. The wire is insulated #14 with 4 support points and kind of looks like a square. Now for the good part, it is flat across the entire 30 meter band and outperforms the Butternut vertical by about 5 S-units! This has been a major improvment for me on 30 meters to say the least. If you have about 100 feet of wire and some insulators you have a great antenna ready to be hatched. it also helps to be

blessed with some 100' plus trees like I have. What a hobby, where else can you build most everything you need.

72 - Phil  
Phil Sikes - KJ7NS  
ARCI #9196 - QRP-L #528  
FISTS #2602 - NW QRP #412

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "Marshall G. Emm" <mgemm@mtechnologies.com>  
Subject: [13579] New Kit  
Message-ID: <331B214C.7B24@mtechnologies.com>

I've been keeping my eyes out for super-bargains in the area of equipment, and I think I've found another one-- a low-current, small, flexible LCD digital display and frequency counter kit by AADE. It can be programmed with a VFO or IF offset, resolves to 100Hz, is physically small, and best of all it's only \$49.95. More info follows.

By the way, as with the Island Memory Keyer kit, this didn't get taken into my product line until I had personally built and used it.

Thanks for the bandwidth...

73  
Marshall Emm  
AA0XI/VK5FN

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: gsurrency@juno.com (Gary L Surrency)  
Subject: [13557] New scopes on the market.  
Message-ID: <19970303.101409.6614.4.gsurrency@juno.com>

While I was thumbing thru the latest issue of Pop Elect. this weekend, I noticed some adds for the little handheld scopes from Fluke, and a really neat scope from Textronics that I think was only about 4.5" deep and used a LCD or flourescent display instead of the usual CRT. Don't remember the model no's.

Depending on the bandwidth, they were around \$1000 to \$1500. Think the specs were 60 Mhz to 100 Mhz.

Has anyone used any of these scopes, and if so, how do they compare to the larger, older scopes with CRTs?

Gary Surrency AB7MY  
S&S TAC-1(40&80m) and ARK30, AT-11 (QRO and QRP)  
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH  
Az ScQRPions

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: mdwatt@usit.net (Marty Watt)  
Subject: [13500] O-scope intro material  
Message-ID: <331a17fb.11481355@smtp.usit.net>

Many thanks to Roger N7KT and Bob AB7ST for the following URL that  
has a "primer" on O-scope usage:

>Would have answered sooner, but couldn't find my copy. Check out the  
>Tektronix web page:  
>  
><http://www.tektronix.com>  
>  
>and look for the "XYZs of Oscilloscopes". It's a pretty fair primer.

Hope everyone finds the information useful, as I'm sure I will!

72 es 73 de=20  
Marty, KM7W

-----  
Jackson, Tennessee e-mail: mdwatt@usit.net  
<http://www.public.usit.net/mdwatt>  
"The Curmudgeon's Corner"  
NorCal - QRP ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid Sq EM55oq  
-----

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: ed.welch@cheaha.com (ED WELCH)  
Subject: [13519] O-scope intro material  
Message-ID: <8D33531.00040010CC.uuout@cheaha.com>

-> Many thanks to Roger N7KT and Bob AB7ST for the following URL that  
-> has a "primer" on O-scope usage:  
->  
-> >Would have answered sooner, but couldn't find my copy. Check out  
-> the >Tektronix web page:  
-> >

-> >http://www.tektronix.com  
-> >  
-> >and look for the "XYZs of Oscilloscopes". It's a pretty fair  
-> primer.  
->  
-> Hope everyone finds the information useful, as I'm sure I will!

I stumbled upon this page while linking off of the NorCal page this evening. The page is *very* impressive. Just gotta find time to go back and study it! FB!

72/73

Ed Welch KF4KRV

NorCal Member

1st Grand Poobah ScQRPion of Alabama

QRP-L #873

Luverne, Alabama

Crenshaw County - Grid EM61

```

+-----+
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----
+-----+
```

> Isn't "time" a 4-letter word? <

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: mdwatt@usit.net (Marty Watt)

Subject: [13502] O-scope thanks

Message-ID: <331b1b11.12271466@smtp.usit.net>

P.S. to previous post ...

Thanks to Bill WB0CLD who searched the archives and found a message from Ed, N4XY, regarding oscilloscope utilization. (I thought it was probably a recycled topic, and was correct!)

Now, I'm going to play with the search feature of the archive myself, and see if perhaps more of my questions have already been answered. I'd rather let the badgers re-invent the wheel, and let me generate RF fields!

Tnx again, to all!

72 es 73 de=20

Marty, KM7W



-----  
Jackson, Tennessee e-mail: mdwatt@usit.net  
http://www.public.usit.net/mdwatt  
"The Curmudgeon's Corner"  
NorCal - QRP ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid Sq EM55oq  
-----

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Bob Hightower <ki7mn@dancris.com>  
Subject: [13553] Proposed licensing changes  
Message-ID: <199703031655.JAA17323@dancris.com>

I don't have any problem with the proposed changes in the licensing structure, except for the return to the sending portion of the test.

Seems to me that most of us can send far faster than we can copy, so there shouldn't be a problem with that, except for the added burden it places on the VE's doing the testing. It looks like it is going to take one VE per candidate to do the sending portion of the test. Not too many teams have that kind of resources available.

Not qrp, I know, but I think many of us on the list are also VE's, and might want to comment to the ARRL on this. Comments should be sent to your Division Director, not to the list.

73,

Bob KI7MN Chandler, AZ Grid DM43bi Lat 33.334500 Long -111.87260  
NorCal #1221 ARCI #8918 Qrp-l #271 CQC #274 AK QRP #30 ARRL  
<http://www.dancris.com/~ki7mn>

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: borealis@juno.com (Philip G. Collier)  
Subject: [13514] Prosthetic Antenna  
Message-ID: <19970302.225256.2511.0.borealis@juno.com>

Bob Patten, N4BP mentioned:

> The leg had a steel pin through it. He would take it off,  
> set it atop the transmitter and load it up on 10M...

I guess you could say he had a leg up in the operation. No doubt his leg took him around the world. My wife says I should try to load up the steel plate in my head, 'cause a head like that ought to go far...

-----

73,

Philip Collier; KG2DH

QRP-L # 1020, ARRL, AMSAT, Order of the Wouff Hong.

Hunting DX on 30 meters; 5 watts and 300 Hz in the groove...

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: tahrens1@juno.com (Tim H. Ahrens)

Subject: [13597] QRPp Copy Request - Filled

Message-ID: <19970303.153753.20583.3.tahrens1@juno.com>

Thanks for the BW everybody -

Glen - K5HGB - a local has  
volunteered.

Thanks again!!

Tim W5FN

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: tahrens1@juno.com (Tim H. Ahrens)

Subject: [13582] QRPp eaten by badgers

Message-ID: <19970303.135254.20583.0.tahrens1@juno.com>

Hi folks - Well, I've just given up on our  
great post office & 4th class mail.

If anyone could make a copy of the December  
issue for me, I'd be happy to pay for copying  
& postage.

Thanks,

Tim W5FN

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: Dave Adams <adamsclan@netgate.net>

Subject: [13522] QST article needed

Message-ID: <331A65DA.5FD4@netgate.net>

Greetings! There is an article on the HW-2036 on p 17 of the June '79

issue of QST. Can anyone zip me off a copy?

73 de dave, n9uxu

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: The Whittemores <wb1edi@scoot.netis.com>  
Subject: [13602] rg402 hardline?  
Message-ID: <1.5.4.32.19970303224842.006aa680@mail.netis.com>

anyone know the value of this stuff? its 5 foot lengths of small hardline rg402.  
barry  
wb1edi  
barry l whittemore  
ars wb1edi qrp-1 arrl mvp amc bsa neqrp ars oa  
check out my web site  
<http://www.netis.com/members/wb1edi>

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: wsmith@cyberdrive.net (Wayne A. Smith)  
Subject: [13505] Scout For Sale  
Message-ID: <199703022016.UAA13233@nemesis.cybergate.net>

FOR SALE: Ten Tec Scout 555 with 5 modules 160-80-40-30-20 has noise blanker and mobile mount, excellent condition \$500.00, shipping by UPS included, Email or call Wayne K8FF at (216)543-7324

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: George Gingell <k3tks@u1.abs.net>  
Subject: [13524] Straight Key Info.- One more  
Message-ID: <Pine.BSI.3.93.970303001932.25422C-100000@u1.abs.net>

Hi Joe,  
I was just reading the Digest and came across your request for QRP Straight keys and then the list of responses. Here is one more to consider. The QRP Key by The American QRP Key Mfg. Co. It is a small "Red Key" about 1 1/2" deep, by 1" wide and 1 1/4" high approximatly. It is made of Plastic and Brass. It is specially suited for portable and backpacking use. It is very light, yet it is also very sturdy. It comes with some "Sticky clay like stuff" I forget the trade name, but I think Florists use it. You put a bit under the key and then

press it down on the lid of your rig and you are in business. I have mine mounted on top of my NC-40A by Wilderness Radio. Makes a patriotic rig, Red key, white label, and blue rig. :-)  
I have included a cc of this posting to Gil Kost the Creator of the key. You can contact him if you need more details or are interested in placing an order. I believe they are sold for \$ 39.95 regularly. I heard that Gil will be at Dayton this year and I expect that he will run a Discount Special on them at that time. I was also considering trying to work out a group purchase on them later. I am thinking that would be best after Dayton. Gil might be a little hard to get right now. When I last saw him he was talking about an upcoming eye surgery.  
Oh, yes If you mention my name you might get a deal. :-)  
(If enuff of you buy them, I'll ge a freebee :-) )

QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@.abs.net  
Maryland Milliwatt QRP Reference Library, (301)572-6789

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: k5gq@juno.com (C M Tyler)  
Subject: [13501] Super CMOS III Keyer spur on 20M K5GQ Mark  
Message-ID: <19970302.183043.3726.4.k5gq@juno.com>

On 20M, about 14.030 5khz one would hear a signal when the keyer was activated. I checked it out with a Ten Tec Corsair; (one of the quietest receivers know). Only the ground side of the keyer output was connected to the rig; (one wire). A S9 signal was noted. Without the wire connected it was about S3. The major signal is conducted and not radiated. I replaced the keying output transistor with an optoisolator, NTE 3098. The optoisolator has four leads. Two are connected to a diode, the remaining two are the transistor collector and the transistor emitter. The two wires that key the rig are not electrically connected to the keyer. (Also, changed the associated resistor.) With the addition of the optoisolator the signal is now S3. The Super CMOS III Keyer is powered by 3 AA cells. In addition to this change, a darlington power transistor replaced the speaker output transistor. This has been operating for over three months without the strong spur on 20M and a audible sidetone.

Before this circuit is recommended the output drive current of the microprocessor needs to be checked. I have not verified this.

I operate HF cw mobile using a bugcatcher antenna going to work and back home. The trip is about one hour. I purchased the Super CMOS III keyer to

use in the auto. The Super CMOS III Keyer instruction stated to put the keyer in a metal box. Metal parts are too hot to handle while left in the car. I put the keyer in a plastic box.

Mark K5GQ

ARRL VE

Location: 29.958 N 95.495 W

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: "Brockman, Marc" <M.Brockman@dialogic.com>

Subject: [13604] test post

Message-ID:

<c=US%a=\_%p=Dialogic%l=EXCHANGE1NJ-970303230137Z-5533@exchange1nj.dialogic.com>

this is a test post.

Please disregard

Marc

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: Al Hunter <ahunter@inland.net>

Subject: [13596] Trade: Vibroplex bugs

Message-ID: <3.0.1.32.19970303133042.006a2a78@inland.net>

Have two Vibroplex bugs to trade for QRP kits, preferably unbuilt.

1.- Vibroplex Champion - Standard vinish (Gray wrinkle) - New York City nameplate. This bug is in mint condition in original shipping carton. The carton has some wear and tear marks but it kept the bug in beautiful shape.

2.- Vibroplex Original - with the heavy chrome base and red paddles. New York City nameplate. I would consider this bug in excellent condition. It would be mint, except for some discoloration where the brass nameplate is attached to the base.

Please advise which bug you would be interested in and what QRP gear you would want to trade. Please respond privately...no copies to the list.

Al Hunter - AA6SO ex W6CGC, W3LQZ

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Mike Czuhajewski <wa8mcq@u1.abs.net>  
Subject: [13537] Update on SMD and other parts  
Message-ID: <Pine.BSI.3.93.970303075210.16682B-100000@u1.abs.net>

A while back I mentioned the dealer that I bought SMD parts from at Dayton in 95 and 96, at good prices, and offered to forward his e-mail price list. (Several responded to that.) I just got his latest e-mail price list; he mentions a few price decreases, an increase or two, but I presume the rest remains the same. I didn't look it over yet to see if he's added anything new. He does have things besides SMD parts, of course.

If anyone would like a copy of his updated e-mailed price list on surplus parts, let me know and I'll forward it to you. (It's several pages long.)

73 and Queue Our Pea DE WA8MCQ                      wa8mcq@abs.net

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: mvjfm@mvubr.mv.lucent.com (James M Fitton +1 508 960 2577)  
Subject: [13561] W1AW/QRP  
Message-ID: <199703031713.MAA13652@alig1.firewall.lucent.com>

QRP-NE club meets at ARRL Headquarters, Newington, CT,,  
on Sunday, 3/9, at 9:30 a.m EST.

This Sunday 3/9, listen for W1AW/QRP after lunch, ~ 1;30 p.m. EST.

The gang will be using many bands/modes QRP.

Jim W1FMR

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: nf0r@slacc.com  
Subject: [13518] W6MMA's SLV Coil Mod (long)  
Message-ID: <9703022226.D6063Nk@slacc.com>

Dear OM/YL,

Just an early advisory that W6MMA is going to sell copies of his coil mods which upgrade the performance of the St. Louis Vertical. Since my first report several weeks ago there are now two versions. Either coil converts the original SLV design into a major-league antenna!

The larger 10-80M coil is 1 1/2" in diameter and 16" long. It will even cover 160M with an extension on the wire radiator. This heavy-duty design is suited for either portable or permanent installation.

The new 10-40M coil is 1 1/2" in diameter and 7" long. It is light and compact thus perfect for portable operating with emphasis on backpackers, hikers, bicyclists etc.

The classic tinned wire coils are machine inletted into a pvc form and feature a sliding tap. The settings are repeatable which means in most instances the tuner can be left at home.

The coils slip fit over the second section of the SD-20 collapsible fishing pole. Both the design and workmanship are first-class. Unlike the SLV's original twin-lead coil these solid wire coils are positioned at about 5 1/2' to minimize ground losses.

A well-designed two part antenna base assembly accompanys each coil. The upper base section slips on the bottom of the collapsible pole and should be glued/epoxied in place. It provides a BNC antenna fitting plus attachment points for the upper and lower radiator and the radials.

The lower base section includes a heavy-duty gutter spike and easily holds the extended antenna upright. This part slides into the coil for storage when the SLV is disassembled.

The 10-80M coil is \$50 and the 10-40M coil is \$40. The base set accompanys each coil. Shipping by Priority Mail is \$5.00 for either version.

This weekend Vern Wright telephoned so I could monitor what he was hearing on the bands. The he proceded to work two contesting JA's on 20M SSB (one running a kw) with two of his SLV's operating in phase. The rig was a NorCal Cascade running three watts!

During another telecon I listened to W6MMA in California take his turns in an 80M SSB net originating in Canada. For that demo he used the Cascade and a single SLV. I've heard it all on these and several other occasions. In addition, at Vern Wright's request I conducted some FYBO-type testing here in St. Louis with excellent results. I am, as they say, a "believer"!

W6MMA monitors the QRP-List but does not have e-mail capability at this

time. Try him at (916)622-2390 evenings or write to Vern Wright at 1606 Pheasant Way, Placerville, CA 95667.

The twinlead coil and balanced feedline on my original SLV get the job done. However, these custom coils upgrade the design into a truly \*hot\* antenna! If you decide to buy I don't think you will be disappointed.

Finally, a very specific disclaimer that I have no financial interest in these products.....but I am a very happy user!

Best regards,

de Dave, NF0R      nf0r@slacc.com

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Bob Tellefsen-CNSE97 <Bob\_Tellefsen-CNSE97@email.mot.com>  
Subject: [13513] Wire sizes  
Message-ID: <M1314866.002.g74e1.1.970303033126Z.CC-MAIL\*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Jess N0TFI

There's an old trick that makes sizing wire easy. Take a pencil, and either measure a half inch or a whole inch on it. Use a knife to make thin nicks on the pencil to mark the ends of the inch or half inch.

Now just tightly wind your wire between the two marks. Count the turns. If you used the inch, you now know the turns per inch. If you used the half inch, multiply by 2 to get the turns per inch. Now you can look up the tpi in any wire table. It's always there in the ARRL Handbook.

72, Bob N6WG

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: tmh@world.std.com  
Subject: [13539] ZL-Special Results: WOW!  
Message-ID: <Pine.SGI.3.93.970303090636.3536A-100000@world.std.com>

I built and installed a ZL Special to use on 20m for the phone contest this last weekend.

My-oh-my!



Within 60 seconds of turning on the radio I'd worked someone in Ireland. In a couple hours of VERY casual effort I made 13 QSOs: Ireland, two Portugals, the Azores (according to my ITU prefix list), Scotland, Germany, Greenland (again, that's what the list says), the Netherlands, Croatia, and four Italians. All at 5 watts on my Cascade.

This is a lot more DX than I ever worked on my dipole. I'm convinced this antenna IS IT!

I took the dimensions for the "improved" version in the L.B. Cebik (frequent QRP-L contributor) article in the Winter Communications Quarterly. This version is for 10m, so I just doubled everything. The antenna is up about 40 feet, hanging from a long clothesline. This way I can adjust the direction by untying the front end of the clothesline and moving it somewhere else.

The front-to-back ratio is what makes this cheap/easy antenna a winner. I could pick out the DX easily, because they were the STRONG stations. The stateside signals were this faint muttering in the background...

If anyone's interested let me know and I'll post the dimensions I used for 20m and some quick-easy construction techniques.

-- Tim N1PAZ

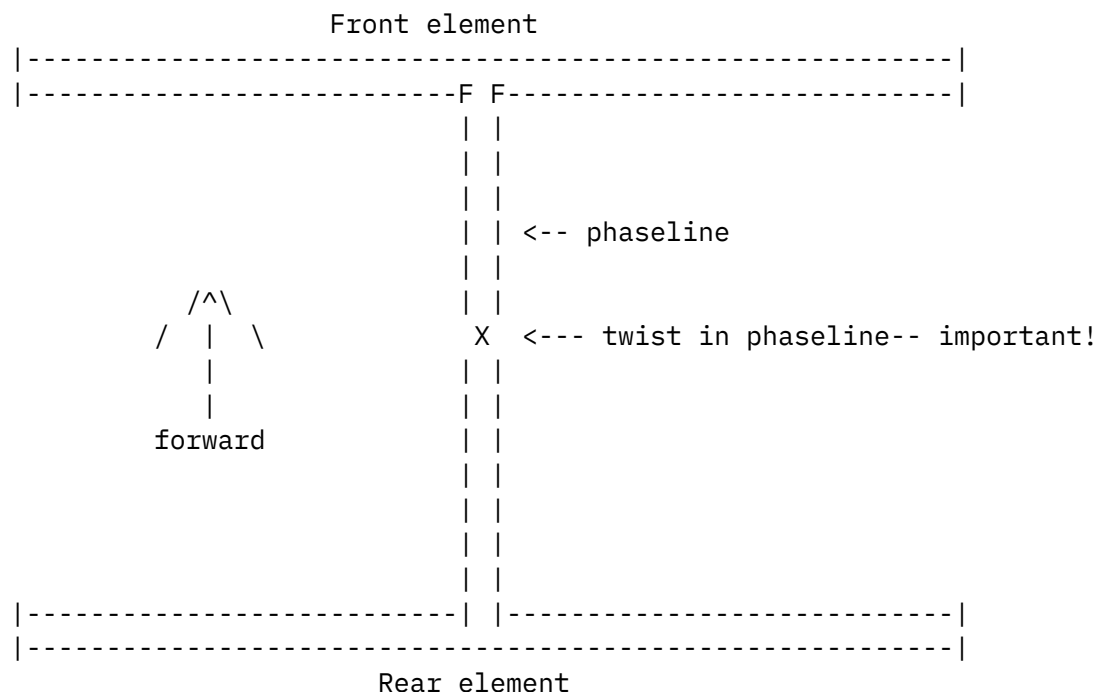
From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: tmh@world.std.com  
Subject: [13551] ZL-Special: Construction (longish)  
Message-ID: <Pine.SGI.3.93.970303114128.13004A-100000@world.std.com>

I can't seem to get any work done so I'd better describe this beast and get it out of my system.

The ZL-Special I built is also known as a Field-Day Special. You may find (better) instructions in some antenna books by looking for it under that name.

The entire antenna is made of 300-ohm twinlead. I used the cheap white plastic stuff that comes in 40-foot rolls from Radio Shack (if the antenna doesn't work, you haven't spent a bundle). One roll for the front element, one for the back, and then you need 8.5 feet more, which unfortunately you DON'T have left over from these rolls, so you might have to buy a third. Total cost of antenna is around \$10.

Electrical connections:



--Antenna is made from three lengths of 300-ohm twinlead.  
--The front and rear elements are approximately 1/2 wavelength long and the two wires in each element ARE SHORTED TOGETHER at the ends (making them folded-dipoles).  
--The middle piece is the phaseline and is approximately 1/8 wavelength long, and MUST have a single twist in it.

F = the feedpoints (note that it feeds in front)

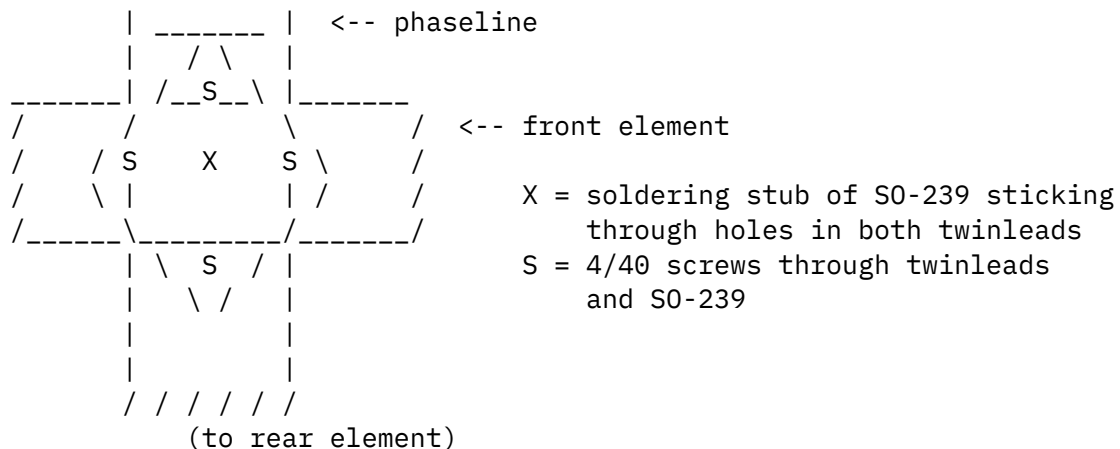
I took the dimensions from the article by L.B. Cebik (W4RNL) (frequent QRP-L contributor) in the Winter 1997 Communications Quarterly, which were for 10m, and I doubled everything for 20m. This gave:

|                      |            |
|----------------------|------------|
| front element length | 32.46 feet |
| phaseline length     | 8.55 feet  |
| rear element length  | 32.68 feet |

I drilled holes in the rear element and the back end of the phaseline and just used a 4/40 screw and nut to hold them together (be careful your hole doesn't hit either wire of the twinlead).

For the front element and the front end of the phaseline, I again drilled 4/40 holes in both twinleads. I then took a S0-239 chassis mount connector, and put its center soldering stub through the two holes. I oriented the S0-239 so its 4 mounting holes lined up with the

two lengths of twinlead, i.e. like a diamond in the above diagram (I let the phaseline stick out the front end about 1/8 inch), and marked the four spots on the twinleads above the mounting holes. I then drilled these four holes in the twinlead and used 4/40 screws and nuts to secure both lengths to the S0-239. This means the electrical connections have no stress on them. I dunno I think this arrangement is rather clever:



NOTE: This diagram is the mechanical assembly ONLY! You must make the electrical connections in the top diagram. Before mechanical assembly cut the back wire of the front element (at the center-point) and the front wire of the rear element, and strip about 1/4 inch of the insulation. I used a solder lug over the stub on the S0-239, soldered so it lay flat. I was then able to stick the (+) wire into the tube-part of the solder lug. For the (-) wire I put a solder lug on one of the four screws and soldered to it.

I ran clothesline from behind the rear element, along the phaseline, to out in front of the front element. The S0-239 and the rear junction are tied to the clothesline. This keeps the phaseline nice and taught. I then tied 50-lb fishing line through little holes in the four ends of the front and rear elements, and tied them reasonably tight, as parallel as I could manage.

My RG58 feedline runs vertically up to the feedpoint. I tied it around the S0-239, to take tension off the conector and to form a rain-loop. The impedance at the feedpoint is right for 50-ohm coax.

If you have room for a 20m dipole, you have room for one of these! For other bands, just remember, the elements are 1/2 wavelength, the phaseline is 1/8th. I'd really like to hear from anyone who builds one of these, and let me know if anyone has questions. My thanks to W4RNL for his article and all the work he put into it.

-- Tim N1PAZ

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: dbs@thermacore.com (Dave Sarraf)  
Subject: [13549] Re: "different" Antennas.  
Message-ID: <9703031008.1.UUL1.3#25536@thermacore.com>

JCoote writes:

>I would use two lawn chairs, balanced configuration, fed in the center with  
>ladderline and a good tuner ;-)

Sounds like the perfect configuration for preparing the raw materials for the  
beer can antenna....

A few years ago QST had an article about a ham who used his two Chrysler K-cars  
as a 20 meter beam. He would park them nose-to-nose and connect the feedline to  
the bumpers. I don't recall if he used a tuner, but I do remember seeing a photo  
of him sitting inside of one element with his rig. Although it wasn't clear from  
the writeup, that must have been the driven element of the antenna.

Dave Sarraf  
N3NDJ  
Elizabethtown, PA.

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>  
Subject: [13552] Re: "different" Antennas.  
Message-ID: <46133.owen@piper.eeel.nist.gov>

In message Mon, 3 Mar 97 10:08:50 EDT,  
dbs@thermacore.com (Dave Sarraf) writes:

>  
> A few years ago QST had an article about a ham who used his two Chrysler  
> K-cars as a 20 meter beam. He would park them nose-to-nose and connect  
> the feedline to the bumpers. I don't recall if he used a tuner, but I do  
> remember seeing a photo of him sitting inside of one element with his

> rig. Although it wasn't clear from the writeup, that must have been the  
> driven element of the antenna.  
> Dave Sarraf  
> N3NDJ  
> Elizabethtown, PA.  
>

The author of this article "The two Dodge antenna" is a friend of mine and a member of the Radio Club here at NIST. He is Jeffrey Horlick KZ3F. It helps if you have TWO like cars as he does. The antenna was a dipole not a beam even though the direction could be changed by "rotating the cars" but it took a while to do it. 72/73 Jim K4CGY qrp-1 #72 Trustee of K3AA -- NIST BRASS

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
Subject: [13540] Re: \*\*\*\*\*FOX ALERT red face correction!\*\*\*\*\*  
Message-ID: <199703031422.0AA11570@chuck.dallas.sgi.com>

Ron,

Gonna be hard to work 100 stations if you are on the  
wrong night. :-)

P.S. Work a lot of TX stations. They are worth bonus points. ;-)  
Chuck Adams K5FO adams@sgi.com DXCC=11  
[http://reality.sgi.com/employees/adams\\_dallas/](http://reality.sgi.com/employees/adams_dallas/)

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Monte Stark <ku7y@sage.dri.edu>  
Subject: [13543] Re: \*\*\*\*\*FOX ALERT red face correction!\*\*\*\*\*  
Message-ID: <Pine.SUN.3.90.970303065309.15868B-1000000@vortex.sage.dri.edu>

On Mon, 3 Mar 1997, Chuck Adams wrote:

> Gonna be hard to work 100 stations if you are on the  
> wrong night. :-)

I'll be there the right night.....just you be sure that you  
are there the right night too!!!!

That's Tuesday, 11 March LOCAL date! :-)

> P.S. Work a lot of TX stations. They are worth bonus points. ;-)

OK. But ATTN California stations.....there is still time to offer  
a good bribe.....

Maybe I'll put a rotator on my vertical.....

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Dave.Ackrill@westwood45.powergen.co.uk  
Subject: [13534] RE: 28.460 MHz @ 2018 UTC, Feb. 2nd (DX contest)  
Message-ID: <970303095205Z\*/G=Dave/S=Ackrill/O=westwood45/PRMD=POWERGEN/  
ADMD=CWMAIL/C=GB@MHS>

Congratulations on working ZF Jay,

I think that it may have been via Sporadic-E propagation, which often  
appears during this time of year, although usually not as strong as in  
the Summer time.

The main problem is one of getting people to try 28MHz as seem to get  
brainwashed into thinking that F layer propagation is the only mode  
available and that they need lots of "sunspots" to do it.

Much of the present research into solar activity is suggesting that  
perhaps the number of sunspots is not the driving mechanism for  
terrestrial radio activity, just a symptom, but this is still being  
debated (before anyone flames me with the opposite opinion!)

There are some interesting graphs of Amateur Es (my abbreviation for  
Sporadic-E) activity that are published in the 6 & 10 Report by the  
RSGB Propagation Studies Committee, the latest one for January (i.e.,  
reports from stations for their January activity is sent out in  
February, think about it - it is logical really!) is out now and has a  
graph of reported Es activity over 1996. There are some peaks around  
the beginning of March 1996, so keep the dial on 28MHz for a little  
while longer.

There are also some comparisons of Es from 1994 and 1995 with 1996,  
which seems to show that the results in the summer of 1996 were not as

good as 1994 or 1995, with 1995 being the "best". The graph shows some activity in January, February and March of each of the years given.

One other section that might be of general interest to Amateurs, and QRPers of course, is a section which read as follows:-

(Remember that 'optimistic' is relative to your point of view :- )

"Ten-year sunspot forecast - calm and milder. The National Aeronautics and Space Administration and other researchers recently gave an optimistic 10-year weather forecast for the Sun, which could mean cooler temperatures and less electronic tumult on Earth. Scientists from NASA and Yale University predicted a decrease in sunspots on the solar surface, as well as a decrease in magnetic storms, cosmic rays and ionosphere disturbances. Such a mild forecast could signal cooler weather on Earth, fewer power blackouts and less interference with radio waves". (Forwarded via the Internet DX Mailing List by KA3DBN)

Hope this is of interest.

Regards - Dave (G0DJJA)  
Member RSGB Propagation Studies Committee

Copied to QRP-L

"How far that little candle throws its beams!" Merchant of Venice  
Act 5

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "Jeremy Cowgar" <jcowgar@villers.com>  
Subject: [13592] Re: Antenna's, Antenna's, Antenna's. How to decide?  
Message-ID: <B0000004317@mail.villers.com>

> Which way is north on your diagram? Orientation will make a big  
difference  
> on the higher bands.

I was asked about a North Reference so I figured I'd repost the diagram to the list.

=====

I have four tree's marked with an \* and a number. I also have two chimneys maked [] but these are on a ranch style home that are probly only 15' up.

```

          * 2
* 1          * 3          ||
+-----+--+          ||
[]|      HOUSE      | |[] <-SHACK  ||
+-----+--+          \ /
          * 4          NORTH

```

Between tree 1 and 3 is 60', 3 and 4 is 75', tree 2 is not in the middle,  
and about 10' off the line of 1 and 3.

=====

Thanks again,

KB8LFA  
Jeremy Cowgar  
jcowgar@villers.com

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>  
Subject: [13595] Re: Antenna's, Antenna's, Antenna's. How to decide?  
Message-ID: <331B4202.557E@postoffice.worldnet.att.net>

Jeremy Cowgar wrote:

>  
> I have four tree's marked with an \* and a number. I also have two chimneys  
> maked [] but  
> these are on a ranch style home that are proably only 15' up.

```

>
>          * 2
> * 1          * 3
> +-----+--+
> []|      HOUSE      | |[] <-SHACK
> +-----+--+
>          * 4
>
>

```

> Between tree 1 and 3 is 60', 3 and 4 is 75', tree 2 is not in the middle,  
> and about 10' off the line of 1 and 3.  
>  
>

Jeremy,

You could try and off-center fed dipole, a G5RV or even a dipole with the feed



point on tree 3 and the two  
elements strung between trees 1 and 3 and trees 3 and 4. Get it as high as you  
can. Radiation pattern will be  
skewed but at least you'll have some operation in most directions.

Another try is to run a dipole from tree 1 to four (looks like about 100 feet if  
my math is right), and feed  
from the end at tree 4. Use a tuner! Or even center feed it and run your coax  
along the ground back to the  
shack.

Neither of these solutions produce a textbook solution, but both are workable to a  
point. Sometimes you just  
have to bite the bullet and accept your limitations as best you can. I don't have  
the room available you do  
and I'm settling for 40-10 meter operation thru a "Carolina Window" ( variation  
of the OCF dipole) I just  
ordered from Radio Works. When I get it up we'll see if it works. I understand  
as well that I'll never have  
anything up that will function on 160.

Of course, theres always the roof mounted vertical. I've been using a ground  
mounted Butternut for about a  
year with reasonable results.

Good luck in your quest.

--

\*\*\*\*\*  
\*\*\*\*\*

Tom Isgro  
OHIO  
KC8DGU

10-X #68364      QRP-L #945      ARS #203      FIST #2360  
C.A.T.T #2115      NORCAL      ARRL

\*\*\*\*\*  
\*\*\*\*\*

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>  
Subject: [13560] Re: Anti CW Article in "73"  
Message-ID: <48694.owen@piper.eeel.nist.gov>

In message Sun, 2 Mar 1997 16:16:59 +0000,

"Dave Yanke" <n9ssg@pobox.com> writes:

> On 28 Feb 97 at 14:48, Dan Hogan wrote:

>

>

>> Why the sudden paranoia over non/anti QRP statements? We are here, and  
>> QRP is growing. You get anti-whatever when others start feeling  
>> threatened by you.

>

>

> Why does not testing or modifying the testing of CW equate to  
> threatening QRP or any other form of CW operations?

>

> While I really don't care which way the code-nocode debate ends, even  
> if code testing were eliminated, I'm pretty sure the FCC/ARRL will  
> not come and confiscate your paddles.

>

>

While it's true that the FCC won't ban CW, the potential problem is when all  
licenses are code free there MAY also be no sub-bands set aside for CW. SSB  
will be allowed on any frequency including those now CW only. It will make  
operating (CW) a lot harder. 72 Jim K4CGY qrp-l #72

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: mdwatt@usit.net (Marty Watt)

Subject: [13525] Re: ARRL Handbook

Message-ID: <331d62ea.30666654@smtp.usit.net>

On Sun, 2 Mar 1997 18:33:30 PST, dwink@juno.com (Daniel C Winkler)  
wrote:

>Hi Gang,

>

> I would like to make a general plea. Buy the Handbook and use =  
it.

> Many of the questions I have seen in the past month have answers in =  
the  
>handbook.

Sure, some questions are answered in the handbook. I looked in my  
1990 Handbook and found a whopping 4 pages of information on  
oscopes, mostly how and why they work. Nada on applications, like  
the four page (printed) message from the QRP-L Archives.

I'd love to have a new handbook -- even the CD-ROM version. But at  
the expense of three months of internet access, the deal isn't so

attractive. Besides, I'm unemployed (there are still a few of us in the "booming" economy) and \$45-60 (depending on version and shipping costs and tax) is a bit of a chunk -- about 25% of my weekly unemployment check, and I get an unemployment check from one of the more generous states (Kansas, \$270 per week; Tennessee, \$200 per week -- go figure).

While certainly the handbook is an excellent reference tool, I find it difficult to discern \*practical\* information from it. Like -- if I want to look at a waveform of the keying of my rig, do I use AC or DC? Where does the probe go? What is the timebase (and code speed) that gets a good look? (All of these questions I've had answered on the list, very practically and in a manner that makes good sense!)

Perhaps the new handbook has changed significantly since 1990. I hope so. But that doesn't mean I have the resources to acquire it, and to my knowledge, the local club doesn't have the funds to provide the library with a copy.

72 es 73 de=20  
Marty, KM7W

-----  
Jackson, Tennessee e-mail: mdwatt@usit.net  
http://www.public.usit.net/mdwatt  
"The Curmudgeon's Corner"  
NorCal - QRP ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid Sq EM55oq  
-----

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Ed Hare <ehare@arrl.org>  
Subject: [13544] Re: ARRL Membership Poll.....as promised.:)  
Message-ID: <5fepe2\$9ke@mgate.arrl.org>

ed.welch@cheaha.com (ED WELCH) wrote:

>The majority of the folks that responded to my question stated an  
>overwhelming \*need\* to voice our opinions to the appropriate parties.  
>If \*we\* don't tell them what \*we\* want/need, then who will?....the  
>Little LEO financiers? As QRPer's I think we have a more grass-roots  
>"feel" for what's going on around us, we have good ideas, and we're  
>proud to be amateur radio operators. We need to share these ideas with  
>"the powers that be". Let'em know what their constitutes want. Pat'em  
>on the back when they do good. COMMUNICATE. PERIOD.

>So, do we sit on our fannies, sharing our ideas and thoughts, our

>complaints and praises with just a small circle of friends, or do we get  
>our pens 'n paper, our typewriters, our word-processors out and write to  
>our representatives? Or do we let somebody else decide what's best for  
>us?

If you have things you want to tell ARRL, or questions you want to ask,  
do so! Policy matters should be sent to your ARRL Division Director;  
staff or publications matters directly to ARRL HQ. Each issue of QST  
carries a large list of email addresses. I \*encourage\* you to make your  
views known. The ARRL Directors are available by mail, email, telephone  
or in person at hamfests and club meetings around their sections.

>To give equal time to the "NO" votes these opinions primarily centered  
>on the ARRL executives salaries (?), and questioning what the ARRL has  
>really done for amateur radio. I don't know about the salaries, but the  
>"what has the ARRL..." question kinda reflects back on the  
>"communication" issue that I've posed above. You might want to sit back  
>and think for a few minutes on just what the ARRL \*has\* done.

All ARRL Directors and officers are unpaid volunteers, although they do  
manage a modest budget to cover miscellaneous expenses, such as mailing  
and travel. The HQ staff does receive a salary; if we were volunteers,  
the place would be pretty empty on sunny days in the summer. Take it  
from me; the salaries are far from excessive. :-)

--

73 from ARRL HQ,  
Ed Hare, KA1CV  
ARRL Laboratory Supervisor

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "Marcus Leatham" <leatham@nortel.ca>  
Subject: [13605] re:AT-11 Ribbon cable connections?  
Message-ID: <199703032302.SAA121281@nss2.CC.Lehigh.EDU>

In message "AT-11 Ribbon cable connections?",  
'nfn04028@naples.net' writes:

>I could guess, but I'd rather be right.  
>  
>Could someone tell me which LED's do the the "Red 1" and "Red 2"  
>ribbon cable conductors go to?  
>

>The 2 red LED's on the panel illustration are labelled 3 and 4, ( " >3 "  
>and "Tuning", respectively).

>

>Thanks, de Marty K1FHR

>

>

They just go in order across the panel:

LED1 : GREEN

LED2 : YELLOW

LED3 : RED1 (>3.0 SWR)

LED4 : RED2 (TUNING)

Just like you would expect.

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: Dave.Ackrill@westwood45.powergen.co.uk

Subject: [13536] RE: Badger Boards

Message-ID: <970303124920Z\*/G=Dave/S=Ackrill/O=westwood45/PRMD=POWERGEN/

ADMD=CWMAIL/C=GB@MHS>

Dear all,

Just to make sure of the address and the telephone number for Badger Boards in the UK, I rang them. Their address and telephone number was confirmed as:

Badger Boards  
87 Blackberry Lane  
Four Oaks  
Sutton Coldfield B74 4JF  
England

Telephone Number: 0956 374918

I hope that this will help those who want to get hold of this company and end the thread.

Cheers de Dave (G0DJA)

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Bill Todd <bill@techline.com>  
Subject: [13590] Re: California Fox Team Signs Free Agent  
Message-ID: <1.5.4.32.19970303202155.00692968@mail.techline.com>

At 11:17 AM 3/3/97 -0800, you wrote:

>The California Fox Team pulled off a coup yesterday as they announced the  
>signing to a long term contract of highly sought after free agent fox hunter  
>Bob White, W03B.

NOTE: The Washington state Fox Team (a loose knit group of malcontents),  
has hired a spiritual advisor to assist the "group" in it's quest for Foxes.

So far, we have received only one application from a Swami Gagapoop. Mr.  
Gagapoop is a renowned mystic who has special radio frequency powers.

The story goes that Swami Gagapoop received RF burns while touching his  
lips to a Voice Of America radial in the early 70's. The Swami guarantees  
results...so we will see.

Respectively Submitted,  
Bill - N7MFB  
(part of the loose knit group)

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: gsurrency@juno.com (Gary L Surrency)  
Subject: [13594] Re: California Fox Team Signs Free Agent  
Message-ID: <19970303.141152.10414.3.gsurrency@juno.com>

Yo!

This is a challenge or at least a call to arms for all Arizonans (Zonies)  
to all come out for the last few days of the FOX season! We need to  
really put the pressure on now! ScQRPions  
and all other AZ stations are needed to gain some real respect here!

Let the games begin! Watch out CA and TX.

72,

Gary Surrency AB7MY  
S&S TAC-1(40&80m) and ARK30, AT-11 (QRO and QRP)  
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH  
Az ScQRPions

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: n4js@amsat.org  
Subject: [13496] RE: Can you hear me? (The Final Chapter)  
Message-ID: <XFMail.970302175643.n4js@amsat.org>

On 02-Mar-97 Brent Alexenko expounded:  
 Anyway, Steve (K8IDN), Paul (W0RW), James (AA1RB), and anyone else who  
 >wants a sked with QRP-NORTH DAKOTA....I'm ready when you are.

```
>  
>Gosh...I'm excited!!  
>  
>Catch you all on 40m!  
>  
>Brent  
>KG0WE  
>West Fargo, ND  
>  
>
```

YOU'RE excited? Hey, let me buy you a cuppa coffee, a pizza, a steak....I'll talk about a sked later. (I gotta work nights this week again :-( )

Sent at 17:56:43 on 02-Mar-97

```

|_ \ | _ | _ | _ | _ / _ |
| . ` | | _ _ || | | \ _ _ \
|_| \ | _ | _ | _ _ / | _ _ /
NE-ORP #507 G-ORP #9544
John L. Sielke n4js@amsat.org n4js@pobox.com
n4js@n4js.ampr.org NJ Grid:FM29LN
http://www.pobox.com/~n4js
NJ-QRP #57 QRP-L #884 QRP-ARCI #9328
Norcal #???? OCWA Life Member

```

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Jim Bennett <jbennett@ebmud.com>  
Subject: [13601] Re: Cleaning Aluminum Tubing (long)  
Message-ID: <331B4BD4.7C30@ebmud.com>

MR SAM F BILLINGSLEY wrote:

```
>  
> I have a ten year old Butternut vertical that needs to be cleaned and  
> re-tuned .  
> Sam Billingsley/AE4GX
```

Sam - last autumn I went through just what you are asking about. Our company has a Mosley Pro-96 (we call it Big Bertha) mounted on top of

our 12 story building in downtown Oakland. We use it for our ham club & for emergency communications to the State Office of Emergency Comm.

Anyway, after being up on the tower for three years with all the nasty city pollution and the close proximity to the salt air of the San Francisco Bay, it started getting kinda "crusty". We pulled it down and gave it a good cleaning:

First, each element was taken apart. Several different cleaners were used, but the best result was with a blue jelly-like aluminum cleaner that we picked up at a local Ace Hardware. Sorry - don't recall the brand name, but if you can find an Ace, they can point you in the right direction. This is pretty mean stuff, so you'll want to use rubber gloves to work on it. It is easy to use, and does not require that your arms look like Arnold Schwarzenegger's! We used Scotch-Brite pads to go over the aluminum pieces after the jelly sat for five minutes.

After a couple minutes polishing with the Scotch-Brite & jelly, wash off the aluminum with a hose and let it dry. Next we used some clean rags and applied a coating of Penetrol Oil on all aluminum parts. This gives it a good protective coating. Let all parts dry overnight.

You are now ready to re-assemble your antenna. Use a piece of 400 grit sandpaper and clean off the Penetrol from the parts of the antenna that will slide together - you want it off so that you get a good electrical connection. After cleaning the Penetrol off, you'll need to apply a product I believe is called Penetrox - might have the name wrong, but we got it at a Ham Radio Outlet. It looks like an oily paste with very fine copper filings in it. It ensures you have a good contact between the aluminum tubing. DON'T get it on your clothing!!

This process was used on our Pro-96, my Cush-Craft A3S at home, and will be used on my Hustler 6BTV this coming spring. It works, and your antenna will look like brand new for quite some time after doing it...

-----  
Jim Bennett / W6JHB (jbennett@ebmud.com)  
Supervising Systems Programmer  
East Bay Municipal Utility District  
Oakland, CA 94607  
voice: 510.287.0224 / fax: 510.287.0373  
-----

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Bill Howell <bhowell@mail.utexas.edu>



Subject: [13598] RE: Cushcraft plastic parts  
Message-ID: <199703032136.PAA04963@mail.utexas.edu>

Mike, you might try emailing them. I believe I got this address from their Web page:

hamsales@cushcraft.com

You wrote:

Hi,

I just risked life and limb to lower my Cushcraft A3 tri-bander this PM for some much needed maintenance. Once the thing was on the ground, I discovered that several of the plastic trap ends are in terrible shape. Lots of splits and cracks allowing H2O to get in. (No wonder the SWR went sky high)

Can anybody tell me if the plastic caps are available from Cushcraft, or am I looking at replacing the traps effected? Nobody answered Cushcrafts phone this PM so got to wonder if anybody else had any experience with this ant?

73, mike

Bill Howell  
University of Texas at Austin  
Performing Arts Center  
Electronic Maintenance  
voice 512.471.1388  
bhowell@mail.utexas.edu  
N5ALO QRP-L #415

everything is sacred  
nothing is serious

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: dwink@juno.com (Daniel C Winkler)  
Subject: [13497] Re: Dipole VEE portable and simple  
Message-ID: <19970302.160736.17271.1.DWink@juno.com>

On Sun, 02 Mar 97 11:39:00 PST Cecil A Moore  
<Cecil\_A\_Moore@ccm.ch.intel.com> writes:

> If your  
> resonant half-wave dipole is fed with a natural  
> number of half-wavelengths of coax, most of the  
> RF will flow back down the outside of the coax braid  
> instead of into the other half of the dipole.

Ooops, Sorry Cecil,

.

Any integer-multiple of half-wavelengths of coax feedline will appear to be a HIGH impedance, and it WILL NOT radiate. A half-wave-length coax feedline will not radiate. Assuming you have it attached to the middle of a resonant dipole.

I believe you were trying to say that any ODD multiple of a QUARTER-wavelength of coax will act as a nice second leg to your dipole, and will radiate a goodly portion of your signal. And it will radiate a significant portion if it is within about 33% of a quarter wavelength (or multiple thereof) (I checked using EZNEC).

But of course he's right about the current balun, and using tv ribbon line. My only hesitancy about balanced line is that here in the Great Pacific Northwest you are likely to have moisture on that line about half the time, either from rain or dew. Or worse. I don't know what that does to the transmission characteristics of TV twinlead.

I am sure it lowers it's  $Z_0$ , and that's not a real concern (you can re-tune), but I suspect that muddy water (there's always dirt on the line unless you're in one hell of a downpour!) increases the losses substantially. Anybody out there got any data on this?

73, ; D DWink@Juno.com Dan Winkler N7IVR Seattle, WA

-----whom the gods would destroy, they first make proud -----

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Ken Lopez <kjlopez@earthlink.net>  
Subject: [13531] Re: FDIM 97 Speakers  
Message-ID: <3319D397.4195@earthlink.net>

Bruce,

I will not be able to attend Dayton this year. But, the FDIM papers are Very interesting. Is there any plan to reprint the papers, as is common for other technical conferences? How about audio or video tapes. I, for one, would purchase most, if not all, of the sessions. They don't have to professionally edited, just a record of what happened. Any thoughts?

73, Ken, N6TZV

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: David.Reid@asm1.nl (David Reid)  
Subject: [13530] Re: HB: BOXES, DSPs, 38s, MOBILE MOUNTS  
Message-ID: <199703030728.IAA08940@wspub002.asm1.nl>

on the mounting brackets made from tye-wraps - I use velcro -which is much easier to adjust - especially as I don't like leaving the rig in the car (the rig is worth more than the car...) It will even hold my 850SAT in place. I'ts cheap, replacable,flexible and adjustable. This makes it VERY QRPable.

73 de Dave PA3HBB G0BZF GQRP 3677.

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Monte Stark <ku7y@sage.dri.edu>  
Subject: [13533] Re: HB: BOXES, DSPs, 38s, MOBILE MOUNTS  
Message-ID: <Pine.SUN.3.90.970302225121.15025A-100000@vortex.sage.dri.edu>

Hi All,

Tie wraps can be undon and reused. (At least the bigger

ones work OK).

Look at the little ribs on the body of the tie. Then insert it into the locking part.

Now, look inside the locking part and notice the little "flap" of plastic that catches in the ribs. Insert a small needle to press the "flap" down and bingo.....you can pull the tie apart!

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "Douglas L. Datwyler" <datwyler@mail.aros.net>  
Subject: [13547] RE: my previous request for inexpensive, basic test instruments  
Message-ID: <331AF031.6C63@mail.aros.net>

Group,

The answers I have received are good questions back.

The frequencies range from high audio (20kHz) to Ghz (possibly) for spectrum analysis. The LC meter may be resolved with an Autek antenna analyzer or dedicated LCR meter (thanks to a nearby net resident Bob Follett). The phase meter (or other measurement method for phase) has not yet been.

As usual, the members of the group have directed the thinking and understanding a bit.

Douglas Datwyler WR70 DN40bo Sandy, UT datwyler@aros.net

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Joe Gervais <vole@primenet.com>  
Subject: [13550] Re: ND Alert!  
Message-ID: <199703031610.JAA24651@usr02.primenet.com>

Brent (KG0WE) wrote:

> Anyway, Steve (K8IDN), Paul (W0RW), James (AA1RB), and anyone else who  
> wants a sked with QRP-NORTH DAKOTA....I'm ready when you are.

What's that rumbling sound....? Dust clouds on the  
horizon too.... STAMPEDE!!!

:)

I'll be QRT for a few days, but Brent as soon as I  
get back on the air, the dread Fox Raider 2001 will  
be sailing within striking range. Me and the rest of  
the List. Beware. :-)

Congrats on getting "air"borne!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

2-Way QRP WAS: 44 (Need: HI, ME, ND, RI, VA, WV)

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: k5vp@earthlink.net (Kevin Potter)  
Subject: [13570] Re: ND QRP  
Message-ID: <v01550100af405b27d434@[206.149.202.104]>

>Hi all!

>

>Well, I'm going to be goofing around on 40m at or near 7.115 (it seems  
>pretty quiet there) around 10 pm CDT tonight (Monday). I'll try and work  
>you if I hear you, but again, the code is pretty rusty :)

>

>Looking forward to it!!

>

>Brent

>KGOWE

>

>West Fargo, ND

Well. I bet my code is just as rusty. I'll be lookin' for ya!

Kevin

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Bob Hightower <ki7mn@dancris.com>  
Subject: [13574] Re: ND QRP  
Message-ID: <199703031903.MAA24078@dancris.com>

At 11:44 AM 3/3/97 -0600, you wrote:

>Hi all!

>

>Well, I'm going to be goofing around on 40m at or near 7.115 (it seems  
>pretty quiet there) around 10 pm CDT tonight (Monday). I'll try and work  
>you if I hear you, but again, the code is pretty rusty :)

>

>Looking forward to it!!

>

>

I've got a feeling you are going to be very busy. Want my exchange now :^)?

73,

Bob KI7MN Chandler, AZ Grid DM43bi Lat 33.334500 Long -111.87260

NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL

<http://www.dancris.com/~ki7mn>

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Jeff Grudin <grudin@pacific.vdbs.com>  
Subject: [13588] Re: ND QRP  
Message-ID: <331B2897.1C85@pacific.vdbs.com>

Brent,

> >Looking forward to it!!

Kevin

>

> I'll be lookin' for ya!

> Me too!!

--

73 de Jeff AC6KW

grudin@vdbs.com

---

QRP-L #16

Exotics

Norcal QRP #1292

Cruz

Private Practice : Companion Animals and

Ocean Animal Clinic / Cat Clinic of Santa

Santa Cruz,

California

QRP'ers do it with less energy (but lot's of enthusiasm)!

---

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: tahrens1@juno.com (Tim H. Ahrens)  
Subject: [13591] Re: ND QRP  
Message-ID: <19970303.150016.20583.1.tahrens1@juno.com>

betcha it's gonna be a real Fox night, eh?!!

cu there

Tim W5FN

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
Subject: [13567] Re: New scopes on the market.  
Message-ID: <199703031808.MAA11256@multi13.netcomi.com>

Gary --

I just put one of these on my bench at the office (Tektronix TDS220).

Slicker 'n sliced banana peel.

Been performing incoming inspection to qualify the new scope by making measurements on an infamous recalcitrant Radiokit....

So, from one day's experience:

Display is much nicer than I expected, clear and bright. The scope is small and extremely light and it will fit on the desk in your shack along with the rig you're trying to test. Imagine slicing off the front panel of a regular scope and filling it with helium.

Remember that it is a digital scope, not an analog scope. However, it does sample at 1 Gs/s, so it really is usable at 100 MHz.

Has all the built-in measurement stuff that you find on the regular Tek digital scopes. The user interface is the usual Tek interface, which has

evolved to where it is almost understandable. Just don't touch that AUTOSET butto.....oh darn.

It does NOT have a dual time base. However, that is partly offset by the long sample memory and pretrigger info. Unlike some previous Tek digital scopes, if you change scale settings after you have captured a trace, it will expand or shrink the trace correctly.

The vertical channels seem to have pretty high internal noise, widening the trace like on the old 465. Of course, the TDS220 is in the same class as the venerable 465, and I'm more accustomed to a crisp 2465B (at only four times the price!). I'd rather have the TDS220 than the 465 any day.

Unlike the flat handheld scopes, this one does not run on batteries. However, the performance and display quality is orders of magnitude better than any of the handheld scopes I've used.

It's the QRP version of a Tek scope.

Mike K1MG

> While I was thumbing thru the latest issue of Pop Elect. this  
> weekend, I noticed some adds for the little handheld scopes  
> from Fluke, and a really neat scope from Textronics that I  
> think was only about 4.5" deep and used a LCD or flourescent  
> display instead of the usual CRT. Don't remember the model no's.  
>  
> Depending on the bandwidth, they were around \$1000 to \$1500.  
> Think the specs were 60 Mhz to 100 Mhz.  
>  
> Has anyone used any of these scopes, and if so, how do they  
> compare to the larger, older scopes with CRTs?  
> Gary Surrency AB7MY

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Ed Tanton <n4xy@avana.net>  
Subject: [13572] Re: New scopes on the market.  
Message-ID: <3.0.1.32.19970303134719.0097e380@tiger.avana.net>

Hi Gary... As along time user and admirer of oscilloscopes I currently have three 'scopes: A Hitachi portable with a 20MHz BW and many built in functions such as a data logger and DMM-it is about the size of one of the early laptops-meaning fairly large-but functionally was way ahead of its time, and-with its 4 inch diag. bright blue screen- works very well; I also



have a Fluke 97 handheld with all of the above, numerous math signal definition and integration functions, a limited signal generator. It is quite capable-at 50 MHz-of doing almost anything I could need for either a bench or portable application-I was very fortunate in that I found a new one a fellow had purchased, intending to set up a 'shop, and the plans fell through. He sold it to me at a pretty good price (~ 5/8 the going market value)-WITH warranty card!

Then there is my latest: a Tektronix 7623B I found surplus but new-sealed in the MIL wrapping. This is a bench type scope with three slots. I bought it for three reasons: 1) while either of the other two would do fine in use on almost any bench-well, at 20MHz the Hitachi is a little limited-it turns out I like the solidity, and sort of presence a bench scope brings. Almost an anti-portability thing. ( I do not really understand this-its just a feeling you get using the instruments.) 2) it is a storage scope with delayed sweep-which really lets you view brief or occasional transient events and their leading edges; and 3) I was able to get a transistor curve tracer plug in with the unit, allowing much better than go-no-go/Hfe measurements on transistors. It also has on-screen readout of settings which is a feature the newer portables have, but most bench scopes lack-and is really nice to have.

Which 'scope for you? If you can only get one: definitely a portable-if it's within your budget. You can just do so many more things with a portable that leaves a bench scope sitting there. Most of the newer portables are-at a minimum-50 MHz, so BW won't be a problem. To tell the truth, most of the math and such features on the Fluke will never be really used. It IS really nice to be able to read mV, dBm, or dB and have the thing calculate changes and/or differences though. But I got THAT one because of the opportunity-not the specific features. It was THE best one at the time, but there are others now offering even more things I might or might not ever use.

So use that for your evaluation criteria: what are you going to use it for, and how much can you possibly spend. (After all, it is hopefully a one-time purchase for many years.)

Dual channel is important; the DMM functions... nice to have but DMMs are \$25-if it comes down to it... reliability is extremely important in my book... and although I actually worked for Tektronix-and love 'em-I lean toward Fluke in the portable area.

Finally, if portability is NOT a criteria, the surplus market is flooded with VERY inexpensive, VERY GOOD, scopes. Stay away from used storage scopes (the CRTs cost a fortune); stay away from some of the higher BW 7700-series Tek scopes with their 500MHz mainframes... they are a bitch to calibrate (correctly), and you just don't need the BW.

If you're going to Dayton, I am certain there will be plenty of bench-type mainframes at great prices. Again, should you be able to afford it, the portables probably will do the most for you, and-again-I suggest Fluke. I hope this helps. Good luck.

72/73

Ed Tanton N4XY      EMAIL: n4xy@avana.net      TEL: (770)579-3933 V/MBX/FAX  
189 Pioneer Trail  
Marietta, GA 30068-3466

QRP-ARCI#7663      G-QRP#6779      OK-QRP#172      QRP-L#758      AdvRC#140  
NORCAL#1779      NCDXF      SEDXC

Life Member: ARRL      AMSAT      IDRA      INDEXA      QCWA  
URL: Coming Sooner or Later

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>  
Subject: [13583] Re: New scopes on the market.  
Message-ID: <Pine.A41.3.95b.970303102510.82696A-100000@homer30.u.washington.edu>

Have been using the Fluke model 95 Scopemeters here for about 3 years now. These are low end (for Scopemeters) battery operated units that come supplied with a wall wart, 2 color coded scope probes (red and grey), and a variety of grabbers and test prods. It has dual channels with a separate trigger input. They utilize LCD displays with a green tint. I'm more accustomed to seeing a brightly lit trace on a blue background. These have a dark trace against a green background. This is my only complaint!

As it's name implies, this is also a multimeter with accessory leads for measuring milivolts up to 3 volts, diode test, and resistance scales 30 ohms to 30 megohms (7 scales). With the scope probes one can measure AC-RMS volts milivolts to 2.5KV, DC from milivolts to 3KV, frequency (limited) and duty cycle. Measurements can be displayed in dBV, dBm, dBW, and audio watts. Maximum scope frequency is rated at 50 megahertz. There are horizontal and vertical cursor controls for both channels. Go ahead, hit the AUTO SET button...it works fine business! If you desire a higher bandwidth or component tester similar to the Huntron, then the higher end Fluke Scopemeters will fill the bill.

We turn these loose with students who have no electronics experience. Have yet to have one get damaged. In fact, In the 14 years I've been working at this job the worst damage I've ever seen to a Fluke meter of any kind is a blown fuse. No, I don't work for Fluke. I'm just

sold on their ruggedness, reliability, and peace of mind that no matter who I hand a Fluke instrument to that it will be returned in working condition.

73 all,  
Stephen Lee, AB7HI, Tacoma, WA  
slee@u.washington.edu

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>  
Subject: [13586] Re: New scopes on the market.  
Message-ID: <Pine.A41.3.95b.970303120936.82696C-100000@homer30.u.washington.edu>

OBTH: The new Fluke Scopemeters do have the nice backlit displays.  
Looks to be 4 models; the 92B, 96B, 99B, and 105B.

Stephen Lee, AB7HI  
slee@u.washington.edu

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: dwink@juno.com (Daniel C Winkler)  
Subject: [13498] Re: QRP Books, recent crop  
Message-ID: <19970302.160736.17271.0.DWink@juno.com>

On Sun, 02 Mar 1997 10:52:37 EST wa5whn@juno.com (Jay D Miller) writes:  
>QRP-Lers,

> "QRPP" Volumes I - III, soon to be four, from  
> "Electronic Data Book for Homebrewer's and QRP'ers" by Paul Harden  
> ARRL "QRP Power"  
> ARRL "Hints & Kinks"

Hi Newcomers!

My list would be slightly different. The oldies are hard to beat.  
In order, I would get:

1. ARRL "QRP Classics" - all reprints from QST, but excellent. It has THE definitive article on crystal ladder filters. It has the original "Neophyte" article and an explanation of the NE602. It also has the original WM-1 low power wattmeter and an explanation of why it works (and others do not). It has several ideas for antennas, antenna tuners, and test equipment. Get it if you don't have it.

2. ARRL "Solid State Design for the Radio Amateur" - this book is still in print and is, IMHO, mandatory. You won't get it all even by the 12th reading, but you'll keep going back. No mention of the NE602, but rock-solid information and ideas from front to back.

If on a limited budget, I would get the above two books FIRST, then probably "QRP Power" (which I haven't seen, but I've already heard two good points from it).

73, ; D DWink@Juno.com Dan Winkler N7IVR Seattle, WA

-----whom the gods would destroy, they first make proud -----

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Steve Hideg <Steve.Hideg.1@nd.edu>  
Subject: [13499] Re: QRP Rigs/Kits?  
Message-ID: <v03007805af3fc4a313bd@[129.74.251.200]>

>Is there a resource that provides brief descriptions and/or  
>specifications for various popular/classic QRP rigs?  
>e.g. Argosy, 509, ARK 20, QRP+, QRP++, etc...  
>  
>Sounds like the Sierra is a challenging kit and some are available  
>in kit form, but what makes it the rig of choice? Other choices?  
>  
>My 38s is almost ready to test (when the crystal arrives) and plans  
>are to build a 40m SST later, but \*still\* looking for a good rig or  
>kit that can be used for "QRP To The Field."  
>  
>73, Brian ke7gh@qsl.net

Start here:

<<http://qrp.cc.nd.edu/qrp-1/catalog/>>

-----  
Steve Hideg, N8HSC/9 QRP-L #136  
Check out the Internet QRP Club's site on the WorldWide Web:  
<<http://qrp.cc.nd.edu/QRP-L/>>

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: n5zgt@swcp.com (Brian Mileschosky)  
Subject: [13507] Re: Question on 38S  
Message-ID: <199703030157.SAA00185@kitsune.swcp.com>

At 11:49 PM 3/1/97 -0500, jerry wrote:

>Gang,  
>  
>Just got the 38 yesterday and have confirmed that all the parts are there.  
>  
>My question is, what has everyone used for the two pots, audio and tuning??  
> Does RS have the suitable parts or should I look elsewhere. Looking  
>forward to building this rig since it's been since the heathkit days since  
>I have built anything. Just wanting to build the "stock" rig for now and  
>see if it will work the first time for me. Thanks for the bw and help.  
>

Can somebody please forward me the above info as well? I asked the same  
question a few weeks ago, and nobody responded. I went to RS and their pots  
are HUGE. I'm looking for some pots smaller in size. Thanks!

72,  
Brian, N5ZGT

-----  
Boy Scouts of America Amateur Radio - N5ZGT  
Eagle Scout (12-6-96) ARRL QRP: NorCal# 1700 QRP-L# 580 AK/QRP # 125  
JASM - Troop 41 Author of Worldradio's "Youth Forum" Column  
Albuquerque, N.M. Packet: N5ZGT @ KC5IZT.ALBQ.NM.USA.NOAM  
O.A. Lodge 66 <-W-W-W-<< Internet: n5zgt@swcp.com  
-----

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: David.Reid@asm1.nl (David Reid)  
Subject: [13528] Re: Super CMOS III Keyer spur on 20M K5GQ Mark  
Message-ID: <199703030720.IAA08938@wspub002.asm1.nl>

Ahhh. my CMOS II keyer used to have this problem....

I cured it by using small RG-174 coax for the lead to the speaker.

worth a try...

now mine's quiet as a mouse..

73 es gud lk

De Dave G0BZF / PA3HBB / GQRP 3677

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>

Subject: [13503] Re: Thanks to list, new antenna up and going!

>From: "Carol N. Wright" <cnw@HiWAAAY.net>

>and I ran the ladderline about 1" or so underground.

Hi Carol, this is an absolute No-No for ladder-line. It should be kept inches away from anything conductive, including ground. Properly functioning coax is self-shielding but ladder-line is completely unshielded. If ladder-line must be run underground, it should be centered in a large PVC pipe.

73, Cecil, W6RCA, 00TC

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: dwink@juno.com (Daniel C Winkler)

Subject: [13521] Re: Thanks to list, new antenna up and going!

Message-ID: <19970302.210829.17271.4.DWink@juno.com>

On Sun, 2 Mar 1997 16:17:23 -0600 (CST) Matt wrote:

>and I ran the ladderline about 1" or so underground.

Uhhhh... , ok. Who am I to argue if it works! But it's going to get awful lossy when it rains. Seems to me Alabama is one of those places that can have torrential downpours. If you want stealth, try putting the line in

some plastic pipe (4" best, 2" will do). The pipe is pretty cheap, but you'll need some elbows for each end to make your little tunnel come up out of the ground, and to make upside-down U's to keep rain out .

Seems to me you've got a pretty neat mom (she lets you fill up her mailbox with 70 messages from the list every night!!!). I think I'd try the straightforward approach and bring the line directly into the house (with a little U to dump the rain- If I seem pre-occupied with rain, just look at my address!). The non-stealth approach may cost you some extra work in favors ("Here, mom, let me help you with that..."), but it's easier in the long run.

By the way, by making the two legs of your dipole (yes, it IS a dipole) unequal, you are forcing your feedline to radiate. And as you get that line close to the ground, you make the worms real happy (cold before, now warm. Ummmm. Nice warm worms.)

...snippity snip...  
>yet, blue or black insulation. Hee Hee!

Ho ho ho, yourself! Imagine that, a black and blue antenna. You're gonna make it look like it took a lickin' in a bad winter when it's brand spanking new. A pre-wintered antenna. I like it!

>The next antenna that I am going to try ...is a regular old plain jane diople. ...  
> The antenna is for 30 meters, then when I add the aligator clips it will  
>be for 40 meters.

Why don't you save yourself some band-changing work and make a trap dipole out of it? Do you have a way of measuring resonant frequencies (like a dip-meter, or an Autec Antenna Analyzer)(or a real, not virtual, elmer?)?

> The third antenna that I want to try is a 33' long vertical.  
>I also got this one from a member of the QRP-L. Take 33' of wire  
>and attach it to one end of the 450 ohm ladderline. Throw it up  
>in a tree, then take another piece of 33' long wire and attach  
>it to the other side of the 450 ohm ladderline and run it across the  
>ground. I haven't had much input on this antenna.

It is just another dipole, you've just let one element get "lazy".  
Keep that lower element off the ground a couple of feet, and point it in the direction you want to hear. There was a nice little thread on this very antenna just a week ago. Cecil said it best: it really works by \*attenuating\* the signal in the direction that the lower single "radial" ISN'T pointing, giving you some directivity. The directivity is dependent on how high you have the thing mounted. With the single radial only 1 foot off the ground, the attenuation off the back is only a few db, with a bigger null of about 15 db up at 80 degrees to the rear. If you get the thing up about 15 feet (top of vertical leg =  $15 + 33 = 48'$  high), then that null drops down to a more useful 45 degrees, the attenuation to the rear increases to 5 db, and the forward direction "gain" increases about 1.5 db over the 1'-up model.

It has been said that a vertical is an antenna that radiates equally poorly in all directions. And it's true. An Inverted V with it's apex at 40' (and 33' legs) outperforms the above vertical (whose tip is 48 feet up) at all angles above 19 degrees in the vertical's preferred direction. And even at 5 degrees elevation the inverted V is only 7 db down from the vertical, a tad more than 1 S unit. The value in this vertical, then, will lie in it's ability to "hear" LESS POORLY in the desired direction, while the inverted V will cheerfully flood you with lots of noise from all over. If you are having trouble hearing the other guy, then this vertical may be your answer. But if he is having trouble hearing you, then an inverted V may be a better bet.

73, ; D DWink@Juno.com Dan Winkler N7IVR Seattle, WA

-----whom the gods would destroy, they first make proud -----

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>  
Subject: [13556] RE: Towers, Rotators, Need advise please  
Message-ID: <47064.owen@piper.eeel.nist.gov>

In message Sat, 1 Mar 1997 03:32:01 -0500,  
Scott Bauer <ke3nv@erols.com> by way of Scott Bauer <ke3nv@erols.com> writes:

> Sorry too add to this, but I have no room at all  
> for guy wires, period. Live on a city type lot.  
>



> I am planning on putting up a tower this spring and could  
> use some good sound advise.  
> My plans are for a 40 foot, freestanding model  
> I have a Rohn catalog and have compared a few towers.  
> I think the 25G will suit my needs fine, but I wonder  
> if anyone could tell me what kind of top to use.

Scott the Rohn 25G and for that matter the 45G is NOT a free standing tower if you put any kind of antenna on it. I don't have the ROHN book in front of me but I think the rating UNGUYED is 2 SQ FT antenna load. This is not even a large TV antenna to say nothing of a TriBander. You must GUY this tower or as an alternate sit it beside the house and use a house bracket no lower than about 18 ft above the ground. In other words you don't want much more than 20 or 25 ft above the bracket.

Use the flat top section and use a bearing. I have a Rohn 45 up this way with the bracket at about 18 feet. Total height is 40 feet with a 3 Ele Hygain 15 meter beam at the top of the tower and 7 feet above that is a 4 Ele Finco 10 meter beam. The rotor is an Alliance HD73. I have had all this up for 14 years and no problems at all. The tower will sway about 4 inches at the top in 50 MPH winds or when I climb it and a 25G would be even more unstable but with a single Triband it should be fine. Oh yes the base is in concrete, the hole is 4X4X6 and has about 6 yards--somewhere around 7000 lbs or so.

> I also could use some advise on rotators. There are way  
> to many for me to choose from. Im looking for "old reliable".  
> Nothing fancy, but very dependable. There will only be one  
> 3 or 4 element tribander on the tower, so I guess one of  
> those super duty ones wont be needed, or will it??

The HD73 would work fine.

> I dont plan on putting the tower up by the way. Ill leave  
> that up to the pro's. I want to live to use my new toy.  
> Any advice will be greatly appreciated.  
>

You might contact USTOWER run by Norm Jeweler K3LYW in Frederick, MD. I'm sure Norm will not lead you astray.

72/73 Jim K4CGY qrp-1 #72

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Michael Tracy <mtracy@arrl.org>  
Subject: [13559] Re: Vibroplex URL  
Message-ID: <331B33E6.15C7@arrl.org>

Hi Al,

It is <http://www.vibroplex.com/>

73, Michael Tracy, KC1SX

Al Hunter wrote:

>

> I can't seem to find the URL for the Vibroplex website.....

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: Michael Tracy <mtracy@arrl.org>

Subject: [13576] Re: Vibroplex URL

Message-ID: <331B4DD1.730D@arrl.org>

Hmm... It seems that the link to the Vibroplex page is busted. I assume that the "Alabama Community Access Network" is the service the company uses, since the correct URL for that page should be <http://www.acan.net/> rather than <http://www.vibroplex.com>

Oh, well - it used to work.

73, Michael Tracy, KC1SX

From owner-qrp-1@Lehigh.EDU Mon Mar 3 18:04:28 1997

From: Bob Hightower <ki7mn@dancris.com>

Subject: [13580] Re: Vibroplex URL

Message-ID: <199703031925.MAA25368@dancris.com>

At 02:16 PM 3/3/97 -0800, you wrote:

>Hmm... It seems that the link to the Vibroplex page is busted. I assume  
>that the "Alabama Community Access Network" is the service the company  
>uses, since the correct URL for that page should be <http://www.acan.net/>  
>rather than <http://www.vibroplex.com>

>

>Oh, well - it used to work.

>

>

Just tried to get to the Jade Products Vibroplex section....it's busted too.

73,

Bob KI7MN Chandler, AZ Grid DM43bi Lat 33.334500 Long -111.87260

NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL

<http://www.dancris.com/~ki7mn>

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: Dan Hogan <dhhogan@lightside.com>  
Subject: [13512] Re: Weak Signal Reception  
Message-ID: <3.0.16.19970302181014.382f881e@mail.lightside.com>

Been on the Internet for 8 years. I have belonged to NUMEROUS Mail--Lists and Newsgroups. QRP-L is the best behaved, most informative and has an absolute minimum of flame wars.

The lists are all voluntary. The List owner/operator is usually doing the list work in addition to his regular job. If you come up with an idea for improvement of the list volunteer--there ain't no one else. The FAQ on other lists and the Newsgroups are all done by volunteers.

Whew! Glad that's off my chest, now back to stuffing the R2 board.

72/73

Dan Hogan WA6PBY QRP-L #558, CQC #340, NorCal #1806,  
dhhogan@lightside.com ARRL, ARCI #3847, G-QRP #9533, FISTS #2949  
Lat. 34d 03.5'N Lon. 117d 56.0'W Grid: OM84wc

From owner-qrp-l@Lehigh.EDU Mon Mar 3 18:04:28 1997  
From: "Marcus Leatham" <leatham@nortel.ca>  
Subject: [13563] re:What we do?  
Message-ID: <199703031745.MAA189878@nss2.CC.Lehigh.EDU>

>

>Well, now she wants me to turn in my 38 special at the police station.

>

I bought two 38 Special kits - one for me and one for Carl, KJ5WA. I met Carl at orchestra rehearsal and gave him his kit, announcing "I have to give Carl his 38 Special!". When I reached into my back pocket to pull it out, several people flinched. It was pretty well known that I had gotten my Texas Concealed Handgun License. I explained why it was called 38 Special. I also explained that it was forbidden to carry concealed guns in a church, even with a license!

Regards,  
Marcus Leatham KR5N

Dallas, TX

```
+-----+  
| My life is based on a true story. |  
+-----+
```